

## 4.2 FDH CONTRACT REQUIREMENTS

The contractor (FDH) shall be responsible for the accomplishment of all work described in the PHMC.

The contractor is expected to subcontract the work of the Hanford Site projects (except where otherwise noted) to firms considered among the "best in class" for the work involved in that project.

The contractor shall organize to optimally manage and support the Hanford Site projects contained in the PHMC (see Section J, Appendix J of the contract) and to provide direct support to individual RL managers in the accomplishment of project completion. Section 4.2 covers projects managed by FDH and the following subcontractors: Waste Management Federal Services of Hanford, Inc.; B&W Hanford Company; DynCorp Tri-Cities Services, Inc.; and DE&S Hanford, Inc..

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RPP-1

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#### 4.2.1 River Protection Project

The River Protection Project (RPP), formerly known as the Tank Waste Remediation System (TWRS) Project, mission scope includes the activities needed to (1) resolve safety issues and provide an approved authorization basis for operations; (2) operate, maintain, and upgrade the tank farms and supporting infrastructure; (3) construct, operate, and maintain facilities that are necessary for waste storage, retrieval, treatment, immobilization, and storage or disposal; (4) characterize, retrieve, pretreat, and immobilize the waste for disposal; (5) provide for the disposition of the cesium and strontium capsule contents; (6) provide disposal of immobilized low-activity waste (ILAW) on-site; (7) provide interim storage of immobilized high-level waste (IHLW) until it is shipped to the national geologic repository; and (8) provide for the closure and decontamination and decommissioning (D&D) of RPP facilities and post-closure monitoring.

##### 4.2.1.a Project Structure

Below is the current Project Structure for RPP. This structure will likely be changed due the following organizational announcement.

As directed by Congress in Section 3139 of the Strom Thurmond National Defense Authorization Act for Fiscal Year 1999, the Department has established the Office of River Protection at the Hanford Site. The Office of River Protection is responsible for managing all aspects of the River Protection Project, including the "privatized" contract for treating and immobilizing the tank waste, and the non-privatized operations, maintenance, engineering, and construction activities in the tank farms. The Department has taken the following action to ensure the Office's success:

- The Office of River Protection has been organized to report directly to the Department's Assistant Secretary for Environmental Management, and the Office of River Protection Manager has been empowered to make key decisions in an expedited manner.
- The Department is staffing the Office of River Protection with highly skilled professionals. Project-critical expertise is being acquired, particularly in fixed-price contract management, private sector financial market analysis, project management, cost estimating, and safety analysis.
- A disciplined project management planning and control approach is being instituted to manage the tank waste cleanup as an integrated system.
- The Department is ensuring that the types of contracts used are tailored to the work being done, considering complexity, uncertainties, and risk.
- New and innovative ways to conduct the work and complete the mission are being sought through improved understanding and management of risks, and by exploring the merits of new ideas and alternatives.

The new office of river protection provides the Department a better way to communicate this critical goal to DOE employees, contractors, stakeholders, citizens, and Congress. The Department believes that the formation of this Office meets the intent of Congress and will be successful in treating Hanford's tank waste because:

- Urgency: The ORP comes at a critical time. The tanks are aging, many have leaked and the only permanent solution is to remove the waste from the tanks and dispose of it.

- Top-notch Management: A national search is being conducted to find the best available talent to fill the key ORP management positions.
- Accountability: The formation of ORP makes essentially one organization and one manager accountable for the success of the project.
- Better Organization : The ORP is organized as an integrated team with a clear chain of command.
- Attention: The name "Office of River Protection" emphasizes the critical importance of the project to the nation; and the Manager, Office of River Protection, reports directly to the Assistant Secretary for Environmental Management to help ensure top Department and Administration attention.

- Tank Waste Characterization (RL-TW01)
- Tank Safety Issue Resolution (RL-TW02)
- Tank Farm Operations (RL-TW03)
- Retrieval (RL-TW04)
- Process Waste Support (RL-TW05)
- Privatization Phase I (RL-TW06)
- Privatization Phase II (RL-TW07)
- Privatization Infrastructure (RL-TW08)
- Immobilized Tank Waste Storage & Disposal (RL-TW09)
- RPP Management Support (RL-TW10)

#### **4.2.1.b Hanford Strategic Plan Goals**

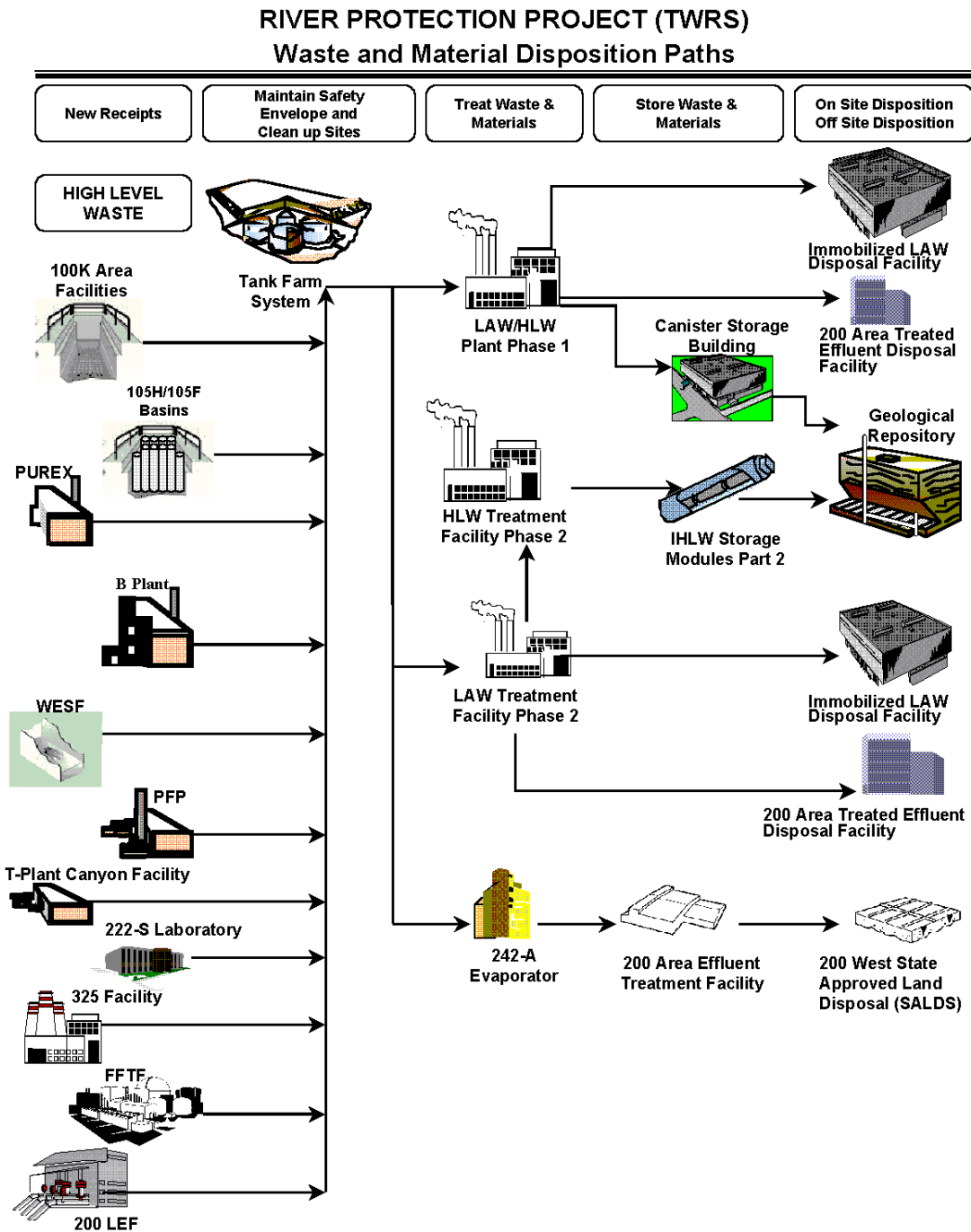
The Waste, Material, and Geographic Area Goals contained in the Hanford Strategic Plan (DOE/RL-96-92), represent planning assumptions around which the Hanford Environmental Management effort is structured. Each Mission Area and Project partially support each of these goals, per scope of work described in the Prime Contracts. As an aggregate, all Mission Areas and Projects will fulfill the requirements of the Hanford Strategic Plan. As such, the Goals identified in this section cover only the goals directly supported by that specific Mission Area. Further details are contained in the Project planning documents. As records-of-decision are issued, these Goals will be amended in future revisions of the Hanford Strategic Plan.

- The 200 Areas and central plateau will be used for the management of nuclear materials and the collection and disposal of waste materials that remain onsite and for other related and compatible uses. Cleanup levels and disposal standards will be established that are consistent with these long-term uses.
- Tank waste from both SSTs and DSTs will be retrieved for immobilization. Waste will be separated into high-level (HLW) and low-activity (LAW) fractions. LAW will be immobilized and disposed of onsite. HLW will be immobilized for disposal in an offsite federal repository.
- Safe, stable, secure onsite storage will be provided for all nuclear materials pending decisions on final disposition or until beneficial offsite uses are identified. Facilities without identified future uses will be transitioned to low-cost, stable deactivated conditions (requiring minimal surveillance and maintenance) pending eventual D&D and removal or closure.
- Surplus facilities will be decommissioned and decontaminated sufficiently to enable removal or closure through entombment.

#### 4.2.1.c Technical Logic

Figure 4-2 presents the material flow/logic for the RPP.

Figure 4-2 River Protection Project Material/Flow Logic



RPPS 10-22-99.ppt 990231  
Systems Engineering/Sandy Bradford

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**Revision 1d**

**4.2.1.d Facility Life-Cycle Responsibility Assignments**

**Table 4-1 River Protection Project Facility Life-Cycle Responsibility Assignments**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
<b>CP Soil Site Operable Units</b>	RL-ER10					RL-ER02 RL-ER05	RL-ER02 RL-ER07
209A					RL-TW03	RL-TW03	RL-TW04
213W					RL-TW03	RL-TW03	RL-TW04
216A271						RL-TW03	RL-TW04
220A					RL-TW03	RL-TW03	RL-TW04
2402EA					RL-TW03	RL-TW03	RL-TW04
241A271					RL-TW03	RL-TW03	RL-TW04
241A271A					RL-TW03	RL-TW03	RL-TW04
241A401					RL-TW03	RL-TW03	RL-TW04
241A431					RL-TW03	RL-TW03	RL-TW04
241A701					RL-TW03	RL-TW03	RL-TW04
241A702					RL-TW03	RL-TW03	RL-TW04
241AX501					RL-TW03	RL-TW03	RL-TW04
241AX801A					RL-TW03	RL-TW03	RL-TW04
241AX801B					RL-TW03	RL-TW03	RL-TW04
241AX801C					RL-TW03	RL-TW03	RL-TW04
241B701					RL-TW03	RL-TW03	RL-TW04
241BY254					RL-TW03	RL-TW03	RL-TW04
241BY301					RL-TW03	RL-TW03	RL-TW04
241BY302					RL-TW03	RL-TW03	RL-TW04
241BY302A					RL-TW03	RL-TW03	RL-TW04
241C51					RL-TW03	RL-TW03	RL-TW04
241C51A					RL-TW03	RL-TW03	RL-TW04
241C51B					RL-TW03	RL-TW03	RL-TW04
241C73					RL-TW03	RL-TW03	RL-TW04
241C90					RL-TW03	RL-TW03	RL-TW04
241C91					RL-TW03	RL-TW03	RL-TW04
241CR271					RL-TW03	RL-TW03	RL-TW04
241S271					RL-TW03	RL-TW03	RL-TW04
241SX271					RL-TW03	RL-TW03	RL-TW04
241SX281					RL-TW03	RL-TW03	RL-TW04
241SX701					RL-TW03	RL-TW03	RL-TW04
241T601					RL-TW03	RL-TW03	RL-TW04
241T701					RL-TW03	RL-TW03	RL-TW04
241TX701					RL-TW03	RL-TW03	RL-TW04
241U271					RL-TW03	RL-TW03	RL-TW04
241U701					RL-TW03	RL-TW03	RL-TW04
241UR					RL-TW03	RL-TW03	RL-TW04
242S					RL-TW03	RL-TP10	RL-TW04
242S702					RL-TW03	RL-TW03	RL-TW04
242T					RL-TW03	RL-TP10	RL-TW04
242T601					RL-TW03	RL-TW03	RL-TW04
242TA						RL-TW03	RL-TW04
242TB					RL-TW03	RL-TW03	RL-TW04
242TC					RL-TW03	RL-TW03	RL-TW04
244A					RL-TW03	RL-TW03	RL-TW04
244AR					RL-TW03	RL-TW03	RL-TW04
244AR701					RL-TW03	RL-TW03	RL-TW04
244AR715					RL-TW03	RL-TW03	RL-TW04
244BX					RL-TW03	RL-TW03	RL-TW04
244CR					RL-TW03	RL-TW03	RL-TW04
244S					RL-TW03	RL-TW03	RL-TW04
244S271					RL-TW03	RL-TW03	RL-TW04
244TX					RL-TW03	RL-TW03	RL-TW04
244TXR						RL-TW03	RL-TW04
244U					RL-TW03	RL-TW03	RL-TW04
244U1					RL-TW03	RL-TW03	RL-TW04
254BY					RL-TW03	RL-TW03	RL-TW04
2703E					RL-TW03	RL-TW03	RL-TW04

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**Table 4-1 River Protection Project Facility Life-Cycle Responsibility Assignments  
(Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre- Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
2707AR					RL-TW03	RL-TW03	RL-TW04
2707AX					RL-TW03	RL-TW03	RL-TW04
2707SX					RL-TW03	RL-TW03	RL-TW04
2708AR					RL-TW03	RL-TW03	RL-TW04
2712B					RL-TW03	RL-TW03	RL-TW04
2713W					RL-TW03	RL-TP10	RL-TW04
2713WB					RL-TW03	RL-TW03	RL-TW04
2713WC					RL-TW03	RL-TW03	RL-TW04
2714AR					RL-TW03	RL-TW03	RL-TW04
271CR					RL-TW03	RL-TW03	RL-TW04
2724A					RL-TW03	RL-TW03	RL-TW04
2724B					RL-TW03	RL-TW03	RL-TW04
2724BX					RL-TW03	RL-TW03	RL-TW04
2724BY					RL-TW03	RL-TW03	RL-TW04
2724C					RL-TW03	RL-TW03	RL-TW04
2724SX					RL-TW03	RL-TW03	RL-TW04
2724T					RL-TW03	RL-TW03	RL-TW04
2724TX					RL-TW03	RL-TW03	RL-TW04
2724TXA					RL-TW03	RL-TW03	RL-TW04
2724TXB					RL-TW03	RL-TW03	RL-TW04
2724U					RL-TW03	RL-TW03	RL-TW04
2724UA					RL-TW03	RL-TW03	RL-TW04
2727WA					RL-TW03	RL-TW03	RL-TW04
272A					RL-TW03	RL-TW03	RL-TW04
272HV					RL-TW03	RL-TW03	RL-TW04
272WA					RL-TW03	RL-TW03	RL-TW04
2902HV					RL-TW03	RL-TW03	RL-TW04
2905R					RL-TW03	RL-TW03	RL-TW04
291AR					RL-TW03	RL-TW03	RL-TW04
292AR					RL-TW03	RL-TW03	RL-TW04
241C801						RL-TW03	RL-TW04
<b>LAW/HLW Plant, Phase 1</b>			RL-TW06 RL-WM07	RL-TW06 RL-WM07	RL-TW06	RL-TW06	RL-TW06
<b>LAW Treatment Facility, Phase 2</b>			RL-TW07 RL-WM07	RL-TW07 RL-WM07	RL-TW07	RL-TW07	RL-TW07
<b>HLW Treatment Facility, Phase 2</b>			RL-TW07 RL-WM07	RL-TW07 RL-WM07	RL-TW07	RL-TW07	RL-TW07
<b>Tank Farm System</b>					RL-TW01 RL-TW02 RL-TW03 RL-TW04	RL-TW03	RL-TW04
204AR					RL-TW03	RL-TW03	RL-TW04
2400E					RL-TW03	RL-TW03	RL-TW04
2403E					RL-TW03	RL-TW03	RL-TW04
2403EA					RL-TW03	RL-TW03	RL-TW04
2404E					RL-TW03	RL-TW03	RL-TW04
241AN271					RL-TW03	RL-TW03	RL-TW04
241AN273					RL-TW03	RL-TW03	RL-TW04
241AN801					RL-TW03	RL-TW03	RL-TW04
241AN274					RL-TW03	RL-TW03	RL-TW04
241AP271					RL-TW03	RL-TW03	RL-TW04
241AP273					RL-TW03	RL-TW03	RL-TW04
241AP801					RL-TW03	RL-TW03	RL-TW04
241AW271					RL-TW03	RL-TW03	RL-TW04
241AW801					RL-TW03	RL-TW03	RL-TW04
241AW273					RL-TW03	RL-TW03	RL-TW04
241AY401					RL-TW03	RL-TW03	RL-TW04
241AY402					RL-TW03	RL-TW03	RL-TW04
241AY51					RL-TW03	RL-TW03	RL-TW04
241AY51A					RL-TW03	RL-TW03	RL-TW04
241AY51B					RL-TW03	RL-TW03	RL-TW04
241AY801A					RL-TW03	RL-TW03	RL-TW04
241AY801					RL-TW03	RL-TW03	RL-TW04
241AZ156					RL-TW03	RL-TW03	RL-TW04
241AZ271					RL-TW03	RL-TW03	RL-TW04
241AZ274					RL-TW03	RL-TW03	RL-TW04



**Table 4-1 River Protection Project Facility Life-Cycle Responsibility Assignments  
(Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
241AZ401					RL-TW03	RL-TW03	RL-TW04
241AZ402					RL-TW03	RL-TW03	RL-TW04
241AZ701					RL-TW03	RL-TW03	RL-TW04
241AZ702					RL-TW03	RL-TW03	RL-TW04
241AZ801					RL-TW03	RL-TW03	RL-TW04
241AZ801A					RL-TW03	RL-TW03	RL-TW04
241SY271					RL-TW03	RL-TW03	RL-TW04
241SY272					RL-TW03	RL-TW03	RL-TW04
241SY275					RL-TW03	RL-TW03	RL-TW04
241SY274					RL-TW03	RL-TW03	RL-TW04
241SY273					RL-TW03	RL-TW03	RL-TW04
241SY276					RL-TW03	RL-TW03	RL-TW04
241SY701					RL-TW03	RL-TW03	RL-TW04
243G					RL-TW03	RL-TW03	RL-TW04
243G12					RL-TW03	RL-TW03	RL-TW04
243G2					RL-TW03	RL-TW03	RL-TW04
243G3					RL-TW03	RL-TW03	RL-TW04
243G5					RL-TW03	RL-TW03	RL-TW04
243G8					RL-TW03	RL-TW03	RL-TW04
243G6					RL-TW03	RL-TW03	RL-TW04
243G81					RL-TW03	RL-TW03	RL-TW04
243G82					RL-TW03	RL-TW03	RL-TW04
243G9					RL-TW03	RL-TW03	RL-TW04
2701HV					RL-TW03	RL-TW03	RL-TW04
2704HV					RL-TW03	RL-TW03	RL-TW04
2715AW					RL-TW03	RL-TW03	RL-TW04
2724AZ					RL-TW03	RL-TW03	RL-TW04
2724SY					RL-TW03	RL-TW03	RL-TW04
2724AY					RL-TW03	RL-TW03	RL-TW04
272AW					RL-TW03	RL-TW03	RL-TW04
272AW10					RL-TW03	RL-TW03	RL-TW04
296A043					RL-TW03	RL-TW03	RL-TW04
296A042					RL-TW03	RL-TW03	RL-TW04
273EA					RL-TW03	RL-TW03	RL-TW04
TC272HV					RL-TW03	RL-TW03	RL-TW04
<b>Canister Storage Building</b>	RL-TW09 RL-WM01			RL-TW09 RL-WM01	RL-TW09 RL-WM01 RL-WM02	RL-TW09 RL-WM02	RL-WM02
<b>IHLW Storage Modules, Part 2</b>	RL-TW09	RL-TW09	RL-TW09 RL-WM07	RL-TW09 RL-WM07	RL-TW09	RL-TW09	RL-TW09
<b>Immobilized LAW Disposal Facility</b>	RL-TW09	RL-TW09	RL-TW09 RL-WM07	RL-TW09 RL-WM07	RL-TW09	RL-TW09	RL-TW09
Immobilized LAW Disposal Facility, Additional Vaults	RL-TW09	RL-TW09	RL-TW09	RL-TW09	RL-TW09	RL-TW09	RL-TW09

\* RL PBS Identifier Index:

RL-ER02 - 200 Area Source Remedial Action  
 RL-ER05 - Surveillance & Maintenance  
 RL-ER07 - Long Term Surveillance & Maintenance  
 RL-ER10 - ER Program Management and Support  
 RL-TP10 - Accelerated Deactivation  
 RL-TW01 - Tank Waste Characterization  
 RL-TW02 - Tank Safety Issue Resolution  
 RL-TW03 - Tank Farm Operations  
 RL-TW04 - Retrieval  
 RL-TW06 - Privatization Phase I  
 RL-TW07 - Privatization Phase II  
 RL-TW09 - Immobilized Tank Waste Storage & Disposal  
 RL-WM01 - Spent Nuclear Fuel Project  
 RL-WM02 - Canister Storage Building Operations  
 RL-WM07 - Waste Minimization

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**TABLE 4-2 River Protection Project Facility Life-Cycle Responsibility Assignments for Waste Sites**

Waste Site	Status	Life Cycle Phase		
		O&M	Post Ops	D&D
<b>CP Soil Site Operable Units</b>	Active		RL-ER02 RL-ER05	RL-ER02 RL-ER07
200-E-29, Unplanned Release From 241-ER-152 Diversion Box	Active		RL-TW03	RL-ER02
241-B-101, 241-B-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-B-102, 241-B-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-B-103, 241-B-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-B-104, 241-B-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-B-105, 241-B-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-B-106, 241-B-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-B-107, 241-B-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-B-108, 241-B-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-B-109, 241-B-TK-109	Active	RL-TW03	RL-TW03	RL-TW04
241-B-110, 241-B-TK-110	Active	RL-TW03	RL-TW03	RL-TW04
241-B-111, 241-B-TK-111	Active	RL-TW03	RL-TW03	RL-TW04
241-B-112, 241-B-TK-112	Active	RL-TW03	RL-TW03	RL-TW04
241-B-151, 241-B-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-B-152, 241-B-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-B-153, 241-B-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-B-201, 241-B-TK-201	Active	RL-TW03	RL-TW03	RL-TW03
241-B-202, 241-B-TK-202	Active	RL-TW03	RL-TW03	RL-TW04
241-B-203, 241-B-TK-203	Active	RL-TW03	RL-TW03	RL-TW04
241-B-204, 241-B-TK-204	Active	RL-TW03	RL-TW03	RL-TW04
241-B-252, 241-B-252 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-B-301, 241-B-301-B Catch Tank, 241-B-301B	Active		RL-TW03	RL-TW04
241-BR-152, 241-BR-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-101, 241-BX-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-102, 241-BX-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-103, 241-BX-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-104, 241-BX-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-105, 241-BX-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-106, 241-BX-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-107, 241-BX-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-108, 241-BX-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-109, 241-BX-TK-109	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-110, 241-BX-TK-110	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-111, 241-BX-TK-111	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-112, 241-BX-TK-112	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-153, 241-BX-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-BX-302A, 241-BX-302-A Catch Tank	Active		RL-TW03	RL-TW03
241-BXR-151, 241-BXR-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-BXR-152, 241-BXR-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-BXR-153, 241-BXR-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-101, 241-BY-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-102, 241-BY-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-103, 241-BY-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-104, 241-BY-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-105, 241-BY-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-106, 241-BY-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-107, 241-BY-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-108, 241-BY-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-109, 241-BY-TK-109	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-110, 241-BY-TK-110	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-111, 241-BY-TK-111	Active	RL-TW03	RL-TW03	RL-TW04
241-BY-112, 241-BY-TK-112	Active	RL-TW03	RL-TW03	RL-TW04
241-BYR-152, 241-BYR-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-BYR-153, 241-BYR-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-BYR-154, 241-BYR-154 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
242-B-151	Active	RL-TW03	RL-TW03	RL-TW04
244-BX DCRT, 244-BX Double-Contained Receiver Tank, 244-BX RT, 244-BX Receiver Tank, 244-BX-TK/SMP, 244-BX Receiver Vault, 244-BXR VAULT, 244-BXR Vault, 244-BXR Receiving Vault. (Subsites 244-BXR-001, 244-BXR-002, 244-BXR-003, 244-BXR-011.)	Active		RL-TW03	RL-TW03
2607-EB	Active	RL-TW03	RL-TW03	RL-TW03
UPR-200-E-105, UN-200-E-105	Active		RL-TW03	RL-TW03
UPR-200-E-108, UN-200-E-108	Active		RL-TW03	RL-TW03
UPR-200-E-109, UN-200-E-109	Active		RL-TW03	RL-TW03
UPR-200-E-110, 241-BY Valve Pit Release, UN-200-E-110	Active		RL-TW03	RL-TW03
UPR-200-E-116, UN-200-E-116	Active		RL-TW03	RL-TW03

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**TABLE 4-2 River Protection Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		O&M	Post Ops	D&D
UPR-200-E-127, UN-200-E-127	Active		RL-TW03	RL-TW03
UPR-200-E-128, UN-200-E-128	Active		RL-TW03	RL-TW03
UPR-200-E-129, UN-200-E-129	Active		RL-TW03	RL-TW03
UPR-200-E-130, UN-200-E-130	Active		RL-TW03	RL-TW03
UPR-200-E-131, UN-200-E-131	Active		RL-TW03	RL-TW03
UPR-200-E-132, UN-200-E-132	Active		RL-TW03	RL-TW03
UPR-200-E-133, UN-200-E-133	Active		RL-TW03	RL-TW03
UPR-200-E-134, UN-200-E-134	Active		RL-TW03	RL-TW03
UPR-200-E-135, UN-200-E-135	Active		RL-TW03	RL-TW03
UPR-200-E-38, Release from 241-B-152, UN-200-E-38, UN-216-E-38	Active		RL-TW03	RL-TW03
UPR-200-E-5, UN-200-E-5	Active		RL-TW03	RL-TW03
UPR-200-E-6, UN-200-E-6, Contamination Around the 241-B-153 Diversion Box	Active		RL-TW03	RL-TW03
UPR-200-E-73, UN-216-E-1, 241-B-151 Diversion Box Contamination, UN-200-E-73	Active		RL-TW03	RL-TW03
UPR-200-E-74, UN-216-E-2, 241-B-152 Diversion Box Contamination, UN-200-E-74	Active		RL-TW03	RL-TW03
UPR-200-E-75, UN-216-E-3, 241-B-153 Diversion Box Contamination, UN-200-E-75	Active		RL-TW03	RL-TW03
UPR-200-E-76, UN-216-E-4, 241-B-153 Line Break, UN-200-E-76	Active		RL-TW03	RL-TW03
UPR-200-E-79, UN-216-E-7, 242-B to 207-B Line Break, UN-200-E-79	Active		RL-TW03	RL-TW03
216-B-63, B Plant Chemical Sewer, 216-B-63 Trench	Active		RL-TW03	RL-ER02
216-W-LWC, 216-W-LC, Laundry Waste Crib, 216-W-LWC Crib, 216-W-1	Active		RL-TW03	RL-ER02
216-A-40 Retention Basin, 216-A-39 Crib, 216-A-39 Trench	Active		RL-TW03	RL-ER02
216-C-9, 216-C-7 Swamp, Former 221-C Canyon Excavation, 216-C-9 Swamp, Semi-Works Swamp, 216-C-9 C Canyon Excavation Semiworks Swamp	Active		RL-TW03	RL-ER02
UPR-200-E-14, UN-200-E-14, 216-B-3 Pond Dike Break	Active		RL-TW03	RL-ER02
207-T, T Plant Retention Basin, 207-T, 207-T Retention Basin	Active	RL-TW03	RL-TW03	RL-ER02
216-T-1, 221-T Ditch, 221-T Trench, 216-T-1 Trench	Active		RL-TW03	RL-ER02
216-T-12, 207-T Sludge Grave, 207-T Sludge Pit, 216-T-11	Active		RL-TW03	RL-ER02
216-T-4-2, 216-T-4-2 Ditch	Active		RL-TW03	RL-ER02
216-Z-20, Z-19 Ditch Replacement Tile Field	Active		RL-TW03	RL-ER02
200-W-7, 246-L, 243S-TK-1, 243-S-TK1	Active	RL-TW03	RL-TW03	RL-ER02
216-TY-201, Supernatant Disposal Flush Tank	Active		RL-TW03	RL-ER02
240-S-151, 240-S-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
240-S-152, 240-S-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
240-S-302, 240-S-302 Catch Tank	Active		RL-TW03	RL-ER02
241-A-151, 241-A-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-A-302A, 241-A-302-A Catch Tank	Active	RL-TW03	RL-TW03	RL-ER02
241-A-302B, 241-A-302-B Catch Tank	Active		RL-TW03	RL-ER02
241-B-154, 241-B-154 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-B-302B, 241-B-302-B Catch Tank, 241-B-302	Active		RL-TW03	RL-ER02
241-BX-154, 241-BX-154 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-BX-155, 241-BX-155 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-BX-302B, 241-BX-302-B Catch Tank	Active		RL-TW03	RL-ER02
241-BX-302C, 241-BX-302-C Catch Tank	Active		RL-TW03	RL-ER02
241-C-154, 241-C-154 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-CX-70, 241-CX-TK-70 Tank, Strontium Hot Semi-works	Active		RL-TW03	RL-TW04
241-CX-71, 241-CX-TK-71, 241-CX Neutralization Tank, Strontium Hot Semi-works	Active		RL-TW03	RL-TW04
241-CX-72, 241-CX-TK-72 Vault and Tank, 241-CX-72 Waste Self Concentrator, Strontium Hot Semi-works	Active		RL-TW03	RL-TW04
241-ER-151, 241-ER-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-ER-152, 241-ER-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-ER-311, 241-ER-311 Catch Tank	Active	RL-TW03	RL-TW03	RL-ER02
241-ER-311A, 241-ER-311A Catch Tank, old 241-ER-311	Active		RL-TW03	RL-ER02
241-SX-302, 241-SX-302 Catch Tank, SX-304	Active		RL-TW03	RL-ER02
241-TX-152, 241-TX-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-TX-154, 241-TX-154 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-TX-155, 241-TX-155 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-TX-302B, 241-TX-302-B Catch Tank	Active	RL-TW03	RL-TW03	RL-ER02
241-TX-302BR, 241-TX-302BR Catch Tank, 241-TXR-302BR	Active		RL-TW03	RL-ER02
241-TX-302C, 241-TX-302-C Catch Tank	Active	RL-TW03	RL-TW03	RL-ER02
241-U-151, 241-U-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-U-152, 241-U-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02
241-UX-154, 241-UX-154 Diversion Box	Active	RL-TW03	RL-TW03	RL-ER02

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**TABLE 4-2 River Protection Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		O&M	Post Ops	D&D
241-UX-302A, 241-U-302 Catch Tank, 241-UX-302 Catch Tank, 241-UX-302	Active	RL-TW03	RL-TW03	RL-ER02
UPR-200-E-117, Contaminated Liquid Spill, UN-200-E-117	Active	RL-TP01	RL-TW03	RL-ER02
UPR-200-E-25, Contamination Spread from the 241-A-151 Diversion Box, UN-200-E-25	Active		RL-TW03	RL-ER02
UPR-200-E-26, 241-A-151 Release, UN-200-E-26	Active		RL-TW03	RL-ER02
UPR-200-E-31, 241-A-151 Release, UN-200-E-31	Active		RL-TW03	RL-ER02
UPR-200-E-42, 241-AX-151 Release, UN-200-E-42	Active		RL-TW03	RL-ER02
UPR-200-E-77, UN-216-E-5, 241-B-154 Diversion Box Ground Contamination, UN-200-E-77	Active		RL-TW03	RL-ER02
UPR-200-E-78, UN-216-E-6, 241-BX-155 Diversion Box ground contamination, UN-200-E-78	Active		RL-TW03	RL-ER02
UPR-200-E-84, 241-ER-151 Catch Tank Leak, UN-200-E-84, UN-216-E-12	Active		RL-TW03	RL-ER02
UPR-200-W-131, Release from 241-TX-155	Active		RL-TW03	RL-ER02
UPR-200-W-135, Release from 241-TX-155, UN-200-2-135	Active		RL-TW03	RL-ER02
UPR-200-W-161, UN-216-W-35, UN-200-W-161	Active		RL-TW03	RL-ER02
UPR-200-W-167, Contamination Migration from 241-TY, UN-216-W-32	Active		RL-TW03	RL-ER02
UPR-200-W-21, UN-200-W-21, Ground Contamination at 241-TX-154 Diversion Box	Active		RL-TW03	RL-ER02
UPR-200-W-28, Release from 241-TX-155, UN-200-W-28	Active		RL-TW03	RL-ER02
UPR-200-W-38, Line Break at 241-TX-302, UPR-200-W-160, UPR-200-W-40, UN-200-W-38, 216-T-30, UN-216-W-36,	Active		RL-TW03	RL-ER02
UPR-200-W-49, Contamination Southeast of 241-SX, UN-200-W-49	Active		RL-TW03	RL-ER02
UPR-200-W-5, Overflow at 241-TX-155, UN-200-W-5	Active		RL-TW03	RL-ER02
UPR-200-W-6, UN-200-W-6, Contamination Spread from 241-U-151 and 152 Diversion Boxes	Active		RL-TW03	RL-ER02
UPR-600-20, UN-216-E-41, Cross Country Transfer Line	Active		RL-TW03	RL-ER02
216-S-26, 216-S-19 Replacement Facility, 216-S-26 Crib	Active		RL-TW03	RL-ER02
200-E-4, Critical Mass Laboratory Dry Well North, 209-E North Dry Well, Miscellaneous Stream #730	Active	RL-TW03	RL-TW03	RL-ER02
209-E-WS-1, 209-E French Drain	Active	RL-TW03	RL-TW03	RL-ER02
209-E-WS-2, Critical Mass Lab French Drain	Active	RL-TW03	RL-TW03	RL-ER02
216-SX-2 Crib	Active		RL-TW03	RL-ER02
216-T-31	Active		RL-TW03	RL-ER02
216-Z-21, 216-Z-21 Seepage Basin, PFP Cold Waste Pond	Active		RL-TW03	RL-ER02
UPR-200-E-15, Overflow at 216-A-4, UN-200-E-15, UPR-200-E-13	Active		RL-TW03	RL-ER02
UPR-200-E-17, Overflow at 216-A-22, UN-200-E-17	Active		RL-TW03	RL-ER02
200-E-43, Tank Car Storage Area, Regulated Equipment Storage Area, TC-4 Spur Tank Car Storage Area	Active	RL-TW03	RL-TW03	RL-ER02
200-E-27, 242AC Pipefitter Shop Lead Cutting Area	Active	RL-TW03	RL-TW03	RL-TW03
204-AR, 204-AR Waste Unloading Station	Active	RL-TW03	RL-TW03	RL-TW04
216-A-39, 216-A-39 Crib, 216-A-39 Trench	Active		RL-TW03	RL-ER02
241-A-101, 241-A-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-A-102, 241-A-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-A-103, 241-A-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-A-104, 241-A-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-A-105, 241-A-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-A-106, 241-A-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-A-152, 241-A-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
216-BY-201, Flush Tank 241-BY, 216-BY-47, Supernatant Disposal Flush Tank	Active		RL-TW03	RL-ER02
241-A-153, 241-A-153 Diversion Box, 241-A-153 Transfer Station	Active	RL-TW03	RL-TW03	RL-TW04
241-A-350, 241-A-350 Catch Tank, 241-A-350 Drainage Lift Station	Active	RL-TW03	RL-TW03	RL-TW04
241-A-417, 241-A-417 Condensate Tank	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-101, 241-AX-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-102, 241-AX-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-103, 241-AX-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-104, 241-AX-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-152DS, 241-AX-152 Diverter Station, 241-AX-152-DS Diverter Station	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-155, 241-AX-155 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-501, 241-AX-501 Valve Pit, 241-AX-501 Condensate Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-A, 241-AX-A Diversion Box, 241-AX-A Structural Valve Pit, 241-AX-A Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-B, 241-AX-B Diversion Box, 241-AX-B Structural Valve Pit, 241-AX-B Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-C-101, 241-C-TK-101	Active	RL-TW03	RL-TW03	RL-TW04

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**TABLE 4-2 River Protection Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		O&M	Post Ops	D&D
241-C-102, 241-C-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-C-103, 241-C-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-C-104, 241-C-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-C-105, 241-C-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-C-106, 241-C-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-C-107, 241-C-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-C-108, 241-C-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-C-109, 241-C-TK-109	Active	RL-TW03	RL-TW03	RL-TW04
241-C-110, 241-C-TK-110	Active	RL-TW03	RL-TW03	RL-TW04
241-C-111, 241-C-TK-111	Active	RL-TW03	RL-TW03	RL-TW04
241-C-112, 241-C-TK-112	Active	RL-TW03	RL-TW03	RL-TW04
241-C-151, 241-C-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-C-152, 241-C-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-C-153, 241-C-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-C-201, 241-C-TK-201	Active	RL-TW03	RL-TW03	RL-TW04
241-C-202, 241-C-TK-202	Active	RL-TW03	RL-TW03	RL-TW04
241-C-203, 241-C-TK-203	Active	RL-TW03	RL-TW03	RL-TW04
241-C-204, 241-C-TK-204	Active	RL-TW03	RL-TW03	RL-TW04
241-C-252, 241-C-252 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-C-301, 241-C-301-C Catch Tank, 241-C-301C	Active		RL-TW03	RL-TW04
241-CR-151, 241-CR-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-CR-152, 241-CR-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-CR-153, 241-CR-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-S-101, 241-S-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-S-102, 241-S-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-S-103, 241-S-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-S-104, 241-S-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-S-105, 241-S-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-S-106, 241-S-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-S-107, 241-S-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-S-108, 241-S-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-S-109, 241-S-TK-109	Active	RL-TW03	RL-TW03	RL-TW04
241-S-110, 241-S-TK-110	Active	RL-TW03	RL-TW03	RL-TW04
241-S-111, 241-S-TK-111	Active	RL-TW03	RL-TW03	RL-TW04
241-S-112, 241-S-TK-112	Active	RL-TW03	RL-TW03	RL-TW04
241-S-151, 241-S-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-S-152, 241-S-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-S-302A, 241-S-302-A Catch Tank	Active		RL-TW03	RL-TW03
241-S-302B, 241-S-302-B Catch Tank	Active		RL-TW03	RL-TW03
241-S-304, 241-S-304 Catch Tank	Active	RL-TW03	RL-TW03	RL-ER02
241-S-A, 241-S-A Valve Pit, 241-S-A Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-S-B, 241-S-B Valve Pit, 241-S-B Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-S-C, 241-S-C Valve Pit, 241-S-C Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-S-D, 241-S-D Valve Pit, 241-S-D Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-101, 241-SX-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-102, 241-SX-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-103, 241-SX-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-104, 241-SX-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-105, 241-SX-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-106, 241-SX-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-107, 241-SX-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-108, 241-SX-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-109, 241-SX-TK-109	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-110, 241-SX-TK-110	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-111, 241-SX-TK-111	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-112, 241-SX-TK-112	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-113, 241-SX-TK-113	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-114, 241-SX-TK-114	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-115, 241-SX-TK-115	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-151, 241-SX-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-152, 241-SX-152 Diversion Box, 241-SX-152 Transfer Box	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-A, 241-SX-A Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-SX-B, 241-SX-B Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-SY-A, 241-SY-A Diversion Box, 241-SY-A Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-T-101, 241-T-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-T-102, 241-T-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-T-103, 241-T-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-T-104, 241-T-TK-104	Active	RL-TW03	RL-TW03	RL-TW04

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**TABLE 4-2 River Protection Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		O&M	Post Ops	D&D
241-T-105, 241-T-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-T-106, 241-T-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-T-107, 241-T-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-T-108, 241-T-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-T-109, 241-T-TK-109	Active	RL-TW03	RL-TW03	RL-TW04
241-T-110, 241-T-TK-110	Active	RL-TW03	RL-TW03	RL-TW04
241-T-111, 241-T-TK-111	Active	RL-TW03	RL-TW03	RL-TW04
241-T-112, 241-T-TK-112	Active	RL-TW03	RL-TW03	RL-TW04
241-T-151, 241-T-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-T-153, 241-T-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-T-201, 241-T-TK-201	Active	RL-TW03	RL-TW03	RL-TW04
241-T-202, 241-T-TK-202	Active	RL-TW03	RL-TW03	RL-TW04
241-T-203, 241-T-TK-203	Active	RL-TW03	RL-TW03	RL-TW04
241-T-204, 241-T-TK-204	Active	RL-TW03	RL-TW03	RL-TW04
241-T-252, 241-T-252 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-T-301B, 241-T-301 Catch Tank, 241-T-301-B	Active		RL-TW03	RL-TW03
241-T-302	Active	RL-TW03	RL-TW03	RL-TW04
241-T-361, 241-T-361 Settling Tank, 361-T-TANK	Active	RL-TW03	RL-TW03	RL-TW04
241-TR-152, 241-TR-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-TR-153, 241-TR-153 Diversion Box, 241-TR-153 Booster Pump Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-101, 241-TX-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-102, 241-TX-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-103, 241-TX-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-104, 241-TX-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-105, 241-TX-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-106, 241-TX-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-107, 241-TX-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-108, 241-TX-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-109, 241-TX-TK-109	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-110, 241-TX-TK-110	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-111, 241-TX-TK-111	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-112, 241-TX-TK-112	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-113, 241-TX-TK-113	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-114, 241-TX-TK-114	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-115, 241-TX-TK-115	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-116, 241-TX-TK-116	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-117, 241-TX-TK-117	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-118, 241-TX-TK-118	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-153, 241-TX-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-302A, 241-TX-302-A Catch Tank	Active	RL-TW03	RL-TW03	RL-TW04
241-TX-302XB, 241-TX-302B Catch Tank, 241-TX-302-X, 241-TX-302-X (B)	Active		RL-TW03	RL-TW04
241-TXR-151, 241-TXR-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW03
241-TXR-152, 241-TXR-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-TXR-153, 241-TXR-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-TY-101, 241-TY-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-TY-102, 241-TY-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-TY-103, 241-TY-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-TY-104, 241-TY-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-TY-105, 241-TY-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-TY-106, 241-TY-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-TY-153, 241-TY-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-TY-302A, 241-TY-302-A Catch Tank	Active		RL-TW03	RL-TW04
241-TY-302B, 241-TY-302-B Catch Tank	Active		RL-TW03	RL-TW03
241-U-101, 241-U-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-U-102, 241-U-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-U-103, 241-U-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-U-104, 241-U-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-U-105, 241-U-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-U-106, 241-U-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-U-107, 241-U-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-U-108, 241-U-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-U-109, 241-U-TK-109	Active	RL-TW03	RL-TW03	RL-TW04
241-U-110, 241-U-TK-110	Active	RL-TW03	RL-TW03	RL-TW04
241-U-111, 241-U-TK-111	Active	RL-TW03	RL-TW03	RL-TW04
241-U-112, 241-U-TK-112	Active	RL-TW03	RL-TW03	RL-TW04
241-U-201, 241-U-TK-201	Active	RL-TW03	RL-TW03	RL-TW04
241-U-202, 241-U-TK-202	Active	RL-TW03	RL-TW03	RL-TW04
241-U-203, 241-U-TK-203	Active	RL-TW03	RL-TW03	RL-TW04

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**TABLE 4-2 River Protection Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		O&M	Post Ops	D&D
241-U-204, 241-U-TK-204	Active	RL-TW03	RL-TW03	RL-TW04
242-T-135	Active		RL-TW03	RL-TW03
242-TA-R1, 242-TA, Receiver TK-Vault, 242-TA Receiver Tank Vault, Z Waste, Receiver Tank TK-R1	Active		RL-TW03	RL-TW03
244-CR VAULT, 244-CR Vault	Active	RL-TW03	RL-TW03	RL-TW03
244-TX DCRT, 244-TX Double-Contained Receiver Tank, 244-TX RT, 244-TX Receiver Tank, 244-TX Receiver Vessel, 244-TX-TK/SMP	Active	RL-TW03	RL-TW03	RL-TW04
244-TXR VAULT, 244-TXR, 244-TXR Vault (Tanks TXR-001, -002, -003)	Active		RL-TW03	RL-TW03
241-A-702-WS-1, 702-A Drain Lines	Active	RL-TW03	RL-TW03	RL-TW04
241-A-A, 241-A-A Diversion Box, 241-A-A Structural Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-A-B, 241-A-B Diversion Box, 241-A-B Structural Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-AN-101, 241-AN-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-AN-102, 241-AN-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-AN-103, 241-AN-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-AN-104, 241-AN-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-AN-105, 241-AN-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-AN-106, 241-AN-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-AN-107, 241-AN-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-AN-A, 241-AN-A Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-AN-B, 241-AN-B Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-AP VP, 241-AP Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-AP-101, 241-AP-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-AP-102, 241-AP-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-AP-103, 241-AP-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-AP-104, 241-AP-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-AP-105, 241-AP-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-AP-106, 241-AP-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-AP-107, 241-AP-TK-107	Active	RL-TW03	RL-TW03	RL-TW04
241-AP-108, 241-AP-TK-108	Active	RL-TW03	RL-TW03	RL-TW04
241-AR-151, 241-AR-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-AW-101, 241-AW-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-AW-102, 241-AW-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-AW-103, 241-AW-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-AW-104, 241-AW-TK-104	Active	RL-TW03	RL-TW03	RL-TW04
241-AW-105, 241-AW-TK-105	Active	RL-TW03	RL-TW03	RL-TW04
241-AW-106, 241-AW-TK-106	Active	RL-TW03	RL-TW03	RL-TW04
241-AW-A, 241-AW-A Valve Pit, 241-AW-A Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-AW-B, 241-AW-B Valve Pit, 241-AW-B Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-AX-151, 241-AX-151 Diversion Box, 241-AX-151 Diverter Station	Active		RL-TW03	RL-TW04
241-AX-152CT, 241-AX-152-CT Catch Tank	Active	RL-TW03	RL-TW03	RL-TW04
241-AY-101, 241-AY-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-AY-102, 241-AY-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-AY-151, 241-AY-151 Diversion Box, 241-AY-151 Pump Out Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-AY-152, 241-AY-152 Diverter Station, 241-AY-152 Sluice Transfer Box	Active	RL-TW03	RL-TW03	RL-TW04
241-AZ-101, 241-AZ-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-AZ-102, 241-AZ-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-AZ-151CT, 241-AZ-151-CT Catch Tank	Active	RL-TW03	RL-TW03	RL-TW04
241-AZ-151DS, 241-AZ-151-DS Diverter Station, 241-AZ-151 Diverter Station	Active	RL-TW03	RL-TW03	RL-TW04
241-AZ-152, 241-AZ-152 Diversion Box, 241-AZ-152 Sluice Transfer Box	Active	RL-TW03	RL-TW03	RL-TW04
241-ER-153, 241-ER-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
244-A DCRT, 244-A Double-Contained Receiver Tank, 244-A RT, 244-A Receiver Tank, 244-A-TK/SMP	Active	RL-TW03	RL-TW03	RL-TW04
244-A LS, 244-A Lift Station, 244-AR Lift Station, 244-AR LS	Active	RL-TW03	RL-TW03	RL-TW03
244-AR VAULT, 244-AR Vault	Active		RL-TW03	RL-TW03
244-CR-WS-1, 244-CR French Drain	Active	RL-TW03	RL-TW03	RL-TW03
2607-E10	Active	RL-TW03	RL-TW03	RL-TW03
2607-ED	Active	RL-TW03	RL-TW03	RL-TW03
2607-EG	Active	RL-TW03	RL-TW03	RL-TW03
GTF, Grout Treatment Facility	Active	RL-TW03	RL-TW03	RL-TW03
GTFL, Grout Treatment Facility Landfill, GTF Vaults, PSW Vault	Active	RL-TW03	RL-TW03	RL-TW03
UPR-200-E-100, Radioactive Spill Near 244-A Lift Station, UN-216-E-100, UN-216-E-29, UN-200-E-100	Active		RL-TW03	RL-TW03
UPR-200-E-107, UN-200-E-107	Active		RL-TW03	RL-TW03
UPR-200-E-115, UN-200-E-115	Active		RL-TW03	RL-TW03
UPR-200-E-118, UN-200-E-118	Active		RL-TW03	RL-TW03
UPR-200-E-119, UN-200-E-119	Active		RL-TW03	RL-TW03
UPR-200-E-125, UN-200-E-125	Active		RL-TW03	RL-TW03

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**TABLE 4-2 River Protection Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		O&M	Post Ops	D&D
UPR-200-E-126, UN-200-E-126	Active		RL-TW03	RL-TW03
UPR-200-E-136, UN-200-E-136	Active		RL-TW03	RL-TW03
UPR-200-E-137, UN-200-E-137	Active		RL-TW03	RL-TW03
UPR-200-E-27, UN-200-E-27	Active		RL-TW03	RL-TW03
UPR-200-E-47, UN-200-E-47	Active		RL-TW03	RL-TW03
UPR-200-E-48, UN-200-E-48	Active		RL-TW03	RL-TW03
UPR-200-E-59, Contaminated Bird Nests and Mud at 216-A-40 and 244-AR Vault, UN-200-E-59	Active		RL-TW03	RL-TW03
UPR-200-E-68, Radioactive Contamination near 244-AR Vault, UN-216-E-68, UN-200-E-68	Active		RL-TW03	RL-TW03
UPR-200-E-72, Radioactive Contamination from Uncovered Buried Waste, UN-200-E-72	Active		RL-TW03	RL-TW03
UPR-200-E-81, UN-216-E-9, 241-CR-151 Line Break, UN-200-E-81	Active		RL-TW03	RL-TW03
UPR-200-E-82, UN-216-E-10, 241-C-152 Line Break, UN-200-E-82, B Plant Ion Exchange Feed Line Leak	Active		RL-TW03	RL-TW03
UPR-200-E-91, UN-216-E-19, UN-200-E-91	Active		RL-TW03	RL-TW03
UPR-200-E-99, UN-216-E-27, Contamination Adjacent to 244-CR Vault, UN-200-E-99	Active		RL-TW03	RL-TW03
241-U-361, 241-U-361 Settling Tank, 361-U-TANK	Active	RL-TW03	RL-TW03	RL-TW04
270-W, 270-W Tank, 270-W Neutralization Tank	Active		RL-TW03	RL-ER02
216-A-8, 216-A-8 Crib	Active		RL-TW03	RL-ER02
209-E-WS-3, Critical Mass Laboratory Valve Pit and Hold Up Tank (209-E-TK-111)	Active	RL-TW03	RL-TW03	RL-ER02
216-C-7, 216-C-7 Crib	Active		RL-TW03	RL-ER02
216-U-16, UO3 Crib	Active		RL-TW03	RL-ER02
216-U-17	Active		RL-TW03	RL-ER02
UPR-200-E-145, W049H Green Soil	Active		RL-TW03	RL-ER02
216-B-62, 216-B-62 Enclosed Trench, 216-B-62 Crib	Active		RL-TW03	RL-ER02
231-W-151, 231-W-151 Vault, 231-W-151-001 (Tank), 231-W-151-002 (Tank), 231-W-151 Sump, 231-Z-151 Sump	Active		RL-TW03	RL-ER02
241-Z-8, 241-Z-TK-8, Silica Slurry Tank, 216-Z-8	Active		RL-TW03	RL-ER02
UPR-200-W-130, Line Leak at 231-W-151 Sump, UN-200-W-130	Active		RL-TW03	RL-ER02
UPR-200-W-20, UN-200-W-20	Active		RL-TW03	RL-ER02
200-W-51, Septic Tank (Abandoned)	Active	RL-TW03	RL-TW03	RL-TW03
241-SY-101, 241-SY-TK-101	Active	RL-TW03	RL-TW03	RL-TW04
241-SY-102, 241-SY-TK-102	Active	RL-TW03	RL-TW03	RL-TW04
241-SY-103, 241-SY-TK-103	Active	RL-TW03	RL-TW03	RL-TW04
241-SY-B, 241-SY-B Diversion Box, 241-SY-B Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
242-S, 242-S Evaporator	Active	RL-TW03	RL-TW03	RL-TW03
244-S DCRT, 244-S Double-Contained Receiver Tank, 244-S RT, 244-S Receiver Tank, 244-S Catch Station, 244-S-TK/SMP	Active	RL-TW03	RL-TW03	RL-ER02
UPR-200-W-140	Active		RL-TW03	RL-TW03
UPR-200-W-141	Active		RL-TW03	RL-TW03
UPR-200-W-142	Active		RL-TW03	RL-TW03
UPR-200-W-143	Active		RL-TW03	RL-TW03
UPR-200-W-144	Active		RL-TW03	RL-TW03
UPR-200-W-145	Active		RL-TW03	RL-TW03
UPR-200-W-146	Active		RL-TW03	RL-TW03
UPR-200-W-50, UN-200-W-50	Active		RL-TW03	RL-TW03
UPR-200-W-80, UN-200-W-80	Active		RL-TW03	RL-TW03
UPR-200-W-81, UN-200-W-81	Active		RL-TW03	RL-TW03
UPR-200-W-82, UN-200-W-82	Active		RL-TW03	RL-TW03
216-A-30, 216-A-30 Crib	Active		RL-TW03	RL-ER02
216-A-37-2, 216-A-37-2 Crib	Active		RL-TW03	RL-ER02
216-B-55, 216-B-55 Enclosed Trench, 216-B-55 Crib	Active		RL-TW03	RL-ER02
216-S-25, 216-S-25 Crib	Active		RL-TW03	RL-ER02
200-E-24, 6607-11, 2704-HV Septic System	Active	RL-TW03	RL-TW03	RL-ER02
2607-E12, 2607-E12 Septic System	Active	RL-TW03	RL-TW03	RL-ER02
2607-E5	Active	RL-TW03	RL-TW03	RL-ER02
2607-E7A, 2607-E7	Active	RL-TW03	RL-TW03	RL-ER02
2607-E7B, 2607-E	Active	RL-TW03	RL-TW03	RL-ER02
2607-EC	Active	RL-TW03	RL-TW03	RL-ER02
2607-W9	Active	RL-TW03	RL-TW03	RL-ER02
2607-WC, 2607-WC Septic System	Active	RL-TW03	RL-TW03	RL-ER02
2607-WL, 2607-WL Septic System	Active	RL-TW03	RL-TW03	RL-ER02
200-W-10, Item 10 (RCRA General Inspection), Grout Wall Test	Active	RL-TW03	RL-TW03	RL-ER02
200-W-13, 2713-WB Green Hut Complex	Active	RL-TW03	RL-TW03	RL-ER02
UPR-200-W-76, UN-200-W-76	Active		RL-TW03	RL-ER02



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**TABLE 4-2 River Protection Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		O&M	Post Ops	D&D
200-W-53, UPR-200-W-166, UN-216-W-31	Active	RL-TW03	RL-TW03	RL-ER02
242-T, 241-T-Evaporator	Active	RL-TW03	RL-TW03	RL-TW03
242-T-151, 242-T-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW03
2607-WT	Active	RL-TW03	RL-TW03	RL-TW03
2607-WTX	Active	RL-TW03	RL-TW03	RL-TW03
UPR-200-W-100, UN-216-W-8, 105-TX to 118-TX Process Line Leak, UN-200-W-100	Active		RL-TW03	RL-TW03
UPR-200-W-12	Active		RL-TW03	RL-TW03
UPR-200-W-126	Active		RL-TW03	RL-TW03
UPR-200-W-129	Active		RL-TW03	RL-TW03
UPR-200-W-149	Active		RL-TW03	RL-TW03
UPR-200-W-150	Active		RL-TW03	RL-TW03
UPR-200-W-151	Active		RL-TW03	RL-TW03
UPR-200-W-152	Active		RL-TW03	RL-TW03
UPR-200-W-153	Active		RL-TW03	RL-TW03
UPR-200-W-17, UN-200-W-17	Active		RL-TW03	RL-TW03
200-W-52, 216-T-7 Crib, 241-T-3 Crib	Active	RL-TW03	RL-TW03	RL-TW03
241-T-152, 241-T-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
UPR-200-W-147	Active		RL-TW03	RL-TW03
UPR-200-W-148	Active		RL-TW03	RL-TW03
UPR-200-W-62, UN-200-W-62	Active		RL-TW03	RL-TW03
UPR-200-W-7, Contamination Spread from the 241-T-151 and 241-T-152 Diversion Boxes, UN-200-W-7	Active		RL-TW03	RL-TW03
216-T-32, 241-T #1 & 2 Cribs, 216-T-6	Active		RL-TW03	RL-ER02
2727-WA, 2727-WA SRE Sodium Storage Building	Active	RL-TW03	RL-TW03	RL-ER02
241-U-153, 241-U-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-U-252, 241-U-252 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-U-301, 241-U-301B	Active	RL-TW03	RL-TW03	RL-TW04
241-U-A, 241-U-A Diversion Box, 241-U-A Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-U-B, 241-U-B Diversion Box, 241-U-B Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-U-C, 241-U-C Diversion Box, 241-U-C Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-U-D, 241-U-D Diversion Box, 241-U-D Valve Pit	Active	RL-TW03	RL-TW03	RL-TW04
241-UR-151, 241-UR-151 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-UR-152, 241-UR-152 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-UR-153, 241-UR-153 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
241-UR-154, 241-UR-154 Diversion Box	Active	RL-TW03	RL-TW03	RL-TW04
244-U DCRT, 244-U Double-Contained Receiver Tank, 244-U RT, 244-U Receiver Tank, 244-U Receiving Vault, 244-U-TK/SMP	Active		RL-TW03	RL-TW03
2607-WUT	Active	RL-TW03	RL-TW03	RL-TW03
UPR-200-W-128	Active		RL-TW03	RL-TW03
UPR-200-W-132, UN-200-W-132	Active		RL-TW03	RL-TW03
UPR-200-W-154	Active		RL-TW03	RL-TW03
UPR-200-W-155	Active		RL-TW03	RL-TW03
UPR-200-W-156	Active		RL-TW03	RL-TW03
UPR-200-W-157	Active		RL-TW03	RL-TW03
UPR-200-E-143, Contamination Adjacent to 244-AR Lift Station, UN-216-E-43	Active		RL-TW03	RL-ER02
UPR-200-E-144, Soil Contamination North of 241-B, UN-216-E-44	Active		RL-TW03	RL-ER02
UPR-200-W-127, Liquid Release from 242-S Evaporator to the Ground, UN-200-W-127	Active		RL-TW03	RL-ER02
UPR-200-W-14, Waste Line Leak at 242-T Evaporator, UN-200-W-14	Active		RL-TW03	RL-ER02
UPR-200-W-51, Release from 241-S Diversion Box, UN-200-W-51, UPR-200-W-52	Active		RL-TW03	RL-ER02
UPR-200-W-52, Release from 241-S Diversion Box, UN-200-W-52	Active		RL-TW03	RL-ER02
UPR-200-W-67, Contamination near 2706-T, UN-200-W-67	Active		RL-TW03	RL-ER02
UPR-200-W-89, Radioactive Contamination Southwest of 236-Z Building, UN-216-W-89, UN-200-W-89	Rejected(Proposed)	RL-TW04		
200-W-34, 272-WA Septic System North of 213W	Active	RL-TW03	RL-TW03	RL-TW03
213-W, 213-W Compactor Facility	Active	RL-TW03	RL-TW03	RL-ER02
213-W-1, 213-W-TK-1, 213-W Compactor Facility Retention Tank	Active	RL-TW03	RL-TW03	RL-ER02
REDOX	Active			RL-ER06 RL-ER07
241SX401	Active	RL-TW03	RL-TW03	RL-TW04
241SX402	Active	RL-TW03	RL-TW03	RL-TW04

**TABLE 4-2 River Protection Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		O&M	Post Ops	D&D
Tank Farm System	Active	RL-TW01 RL-TW02 RL-TW03 RL-TW04	RL-TW03	RL-TW04
CC Soil Site Operable Units	Active		RL-ER02	RL-ER02 RL-ER07
241-EW-151, 241-EW-151 Vent Station Catch Tank, 241-EW-151 Vent Station, Vent Station, 200 Area East-West Vent Station	Active	RL-TW03	RL-TW03	RL-ER02

\* RL PBS Identifier Index:

RL-ER02 - 200 Area Source Remedial Action  
RL-ER05 - Surveillance & Maintenance  
RL-ER06 - Decontamination & Decommissioning  
RL-ER07 - Long Term Surveillance & Maintenance  
RL-TP01 - B-Plant  
RL-TW01 - Tank Waste Characterization  
RL-TW02 - Tank Safety Issue Resolution  
RL-TW03 - Tank Farm Operations  
RL-TW04 - Retrieval

#### 4.2.1.e Performance Measures

Performance measures are used to monitor both mission and corporate management. In this document, our focus is on mission management. There are two types of mission-focused performance measures. First, there are performance measures that monitor the progress made on activities that must be completed to enable a key step in waste/material cleanup to occur. These activities may involve activities such as facility and system upgrades, tank waste characterizations, assessments of tank safety issues, regulatory permits, and the design of waste treatment and storage facilities.

Second, there are performance measures that track the progress made in the processing of wastes and other materials (including facilities). These "process" measures monitor changes in waste/material form, storage method, and location. These measures are important because they are directly linked to two key Success Indicators - the reduction in the level of active management required for the inventory and the reduction in the hazard posed by the waste/material. Process measures will monitor the waste/material during each major processing step as the material transitions from its initial configuration within the single-shell or double-shell tanks (or associated equipment) to the configuration described by the appropriate endpoint target. Endpoint targets for the TWRS mission are presented in the Hanford Strategic Plan and are included in the *Facility Life-Cycle Requirements Section* for each project that comprises this mission.

##### 4.2.1.1 Tank Waste Characterization

##### 4.2.1.1.1 Project Description Summary

The Tank Waste Characterization Project was established to characterize the Hanford Site

high-level radioactive waste to aid the safe storage, retrieval, processing, and disposal of this waste. This waste is stored in large, underground, radioactive waste storage double-shell tanks (DSTs) and single-shell tanks (SSTs). The work involved is to plan, sample, analyze, and report tank waste contents. Activities include; program management, characterization data development, sampling equipment, acquire samples and measurements, and sample analyses.

#### **4.2.1.1.2 Life-Cycle Material and Waste Flow**

This project has no responsibility for managing waste inventory.

#### **4.2.1.1.3 Facility Life-Cycle Requirements**

- Requirements
  - The Hanford radioactive tank wastes, presently stored in 177 underground storage tanks and other miscellaneous underground tanks, shall be characterized.
- Planning Assumptions
  - None

#### **4.2.1.1.4 Project Safety Authorization Basis/NEPA and Permits**

The Authorization Basis consists of those aspects of the facility design basis and operational requirements relied upon by the DOE to authorize operation. These aspects are considered important to the safety of the facility operations. The complete list of documents that comprise the Authorization Basis for TWRS facilities and activities is provided in Attachment A of HNF-IP-0842, TWRS Administration, Volume IV, Section 5.4, "Unreviewed Safety Questions" (FDH 1998a).

The Tank Waste Characterization Project operates under the requirements of DOE/EA-0915, Environmental Assessment - Waste Tank Safety Program, Hanford Site, Richland, Washington (RL 1994), which was issued for compliance with NEPA. In addition, DOE/EIS-0212, Safe Interim Storage of Hanford Tank Waste Final Environmental Impact Statement (SIS EIS) (RL and Ecology 1995) was issued in October 1995. Subsequently, the DOE issued the Record of Decision (ROD): Safe Interim Storage of Hanford Tank Wastes, Hanford Site, Richland, WA (DOE 1995a) on November 21, 1995, following concurrence by the State of Washington. Additional environmental permits required for compliance with federal and state air pollution regulations are developed and approved as needed on a project-specific basis. State air pollution permits also activate the State Environmental Policy Act of 1971 requirements and are also addressed on a project-specific basis.

#### **4.2.1.1.5 Tri-Party Agreement Requirements**

- TPA.M.44.0.A Complete delivery of information requirements as identified in the annually submitted WIRD. [Due Date: 9/30/2002]

#### 4.2.1.1.6 Interfaces

**TABLE 4-3 Tank Waste Characterization Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Tank Farm Operations	RL-TW03	Provides DST Waste for Sampling Provides SST Waste for Sampling
Analytical Services	RL-WM06	Receives DST Samples Receives SST Samples

#### 4.2.1.1.7 Requirements References

- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"

#### 4.2.1.2 Tank Safety Issue Resolution

##### 4.2.1.2.1 Project Description Summary

The purpose of this project is to provide an adequate, comprehensive, and reliable safety basis for the management and storage of waste by River Protection Project (RPP). This will be accomplished by developing and maintaining an integrated Authorization Basis (AB) and by resolving outstanding safety issues to ensure safe storage of waste.

The Tank Safety Issue Resolution Project was established to address hazards associated with the storage of radioactive mixed waste in the large underground storage tanks at the Hanford Site. Safety issues have been raised for single-shell tanks (SSTs), double-shell tanks (DSTs) and ancillary facilities with regard to flammable gas and organic complexants. In response to Public Law 101-510, Section 3137, "Safety Measures for Waste Tanks at Hanford Nuclear Reservation", tanks of the highest concern have been placed on the Watch List. This project develops the technical basis for closure of Unreviewed Safety Questions (USQ), resolution of the safety issues, and removal of all tanks from the Watch List. It also supports upgrades to the Final Safety Analysis Report (FSAR), which is the authorization basis for safe operations of the tank farms and continued safe storage of the tank contents.

##### 4.2.1.2.2 Life-Cycle Material and Waste Flow

This project has no responsibility for managing waste inventory.

#### 4.2.1.2.3 Facility Life-Cycle Requirements

- Requirements
  - Tank safety issues for high priority tanks shall be resolved by Sep 30, 2001
- Planning Assumptions
  - None

#### 4.2.1.2.4 Project Safety Authorization Basis/NEPA and Permits

The Authorization Basis consists of those aspects of the facility design basis and operational requirements relied upon by the DOE to authorize operation. This project exists primarily because conditions may be present which are not adequately covered by an Authorization Basis. The complete list of documents that comprise the Authorization Basis for TWRS facilities and activities is provided in Attachment A of HNF-IP-0842, TWRS Administration, Volume IV, Section 5.4, "Unreviewed Safety Questions" (FDH 1998a).

The Tank Safety Issue Resolution Project operates under the requirements of DOE/EA-0915, Environmental Assessment - Waste Tank Safety Program, Hanford Site, Richland, Washington (RL 1994), which was issued for compliance with NEPA. In addition, DOE/EIS-0212, Safe Interim Storage of Hanford Tank Waste Final Environmental Impact Statement (SIS EIS (RL and Ecology 1995) was issued in October 1995. Subsequently, the DOE issued the Record of Decision (ROD): Safe Interim Storage of Hanford Tank Wastes, Hanford Site, Richland, WA (DOE 1995a) on November 21, 1995, following concurrence by the State of Washington. Additional environmental permits required for compliance with federal and state air pollution regulations are developed and approved as needed on a project-specific basis.

#### 4.2.1.2.5 Tri-Party Agreement Requirements

- TPA.M.40.0 Mitigate/resolve tank safety issues for high priority watch list tanks.  
[Due Date: 9/30/2001]

#### 4.2.1.2.6 Interfaces

**TABLE 4-4 Tank Safety Issue Resolution Interfaces**

Project Title	Project Number	Interface
Tank Farm Operations	RL-TW03	Provides Conditions of Operations Receives Authorization Basis

#### 4.2.1.2.7 Requirements References

- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"

#### 4.2.1.3 Tank Farm Operations

##### 4.2.1.3.1 Project Description Summary

Tank Farms Operations operates and maintains the RPP mission required tank farm systems, structures and components (SSCs) in a safe, reliable, and operable condition to meet mission requirements. The technical approach to Tank Farms Operations is to conduct all activities pertaining to the operation of a permitted treatment, storage, and disposal (TSD) facility within the boundary of the current Authorization Basis and in a manner that ensures compliance with all applicable federal, state, and local laws and regulations. (In addition, ensuring a safe working environment for all employees and support groups is a top priority.) This performs all operations support functions required for routine surveillance, operation, and maintenance of the 200 East Area and 200 West Area tank farms. These functions include:

- Performing preventative and corrective maintenance (routine and non-routine)
- Performing waste transfers to feed tanks in support of waste concentration operations
- Conducting health physics activities (radiological)
- Conducting routine surveillance monitoring
- Conducting industrial hygiene and safety functions
- Performing engineering and analysis (trade studies and analysis capability upgrades)
- Managing and controlling projects and upgrades to facilities and infrastructure
- Enhancing the safety of facility operations and preparing the facilities for the eventual turnover to the Retrieval Project for closure.

In addition the Tank Farms Operations has the mandate to pump interstitial liquids from the aging, single shell tanks in the 200 Area Tank Farms and transfer it to the safer, compliant double shell tanks in accordance with the Consent Decree, Tri-Party Agreement milestones and other schedules as set by the Department of Energy (DOE).

##### 4.2.1.3.2 Life-Cycle Material and Waste Flow

The following tables contain the waste forecasts by facility and waste category that the project is planning to receive or generate over the full life cycle of the project's involvement with the facilities listed. The values listed are forecasts and not requirements allocated to the projects.

**Table 4-5 Tank Farm Operations Waste/Material Flow (In)**

Major Facility	Category	Period	Value	Units
Tank Farm System	HLW	2000 - 2018	51200	cubic meters

**Table 4-6 Tank Farm Operations Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
Tank Farm System	CH LLMW I	2000 - 2032	3030	cubic meters
	CH LLMW III	2000 - 2032	1970	cubic meters
	CH LLW I	2000 - 2032	10000	cubic meters
	HAZ	2000 - 2031	228.0	cubic meters
	HLW	2000 - 2018	77100	cubic meters
	RH LLMW I	2000 - 2032	821.0	cubic meters
	RH LLMW III	2000 - 2031	416.0	cubic meters
	Sanitary Liquid Waste	2000 - 2006	1.4	Mgal
	Sanitary Solid Waste	2000 - 2006	4640	tons
	Treated Liquid Effluent	2000 - 2018	188000	cubic meters

#### **4.2.1.3.3 Facility Life-Cycle Requirements**

- Requirements

- Single shell tanks shall be interim stabilized.
  - Tank Farm upgrades shall be completed by June 30, 2005
  - 244AR interim actions shall be completed.

- Planning Assumptions

- Central Plateau high cost surplus facilities shall be transitioned to a low cost, stable, deactivated condition
  - Facilities shall be maintained within the approved safety envelope
  - Double Shell Tank facilities shall be maintained within the approved safety envelope
  - Miscellaneous Underground Storage Tanks shall be maintained within the approved safety envelope
  - Single Shell Tank facilities shall be maintained within the approved safety envelope

#### **4.2.1.3.4 Project Safety Authorization Basis/NEPA and Permits**

The Authorization Basis consists of those aspects of the facility design basis and operational requirements relied upon by the DOE to authorize operation. These aspects are considered important to the safety of the facility operations. The complete list of documents that comprise the Authorization Basis for TWRS facilities and activities is provided in Attachment A of HNF-IP-0842, TWRS Administration, Volume IV, Section 5.4, "Unreviewed Safety Questions" (FDH 1998a).

To comply with NEPA requirements, the DOE and the Washington State Department of Ecology (Ecology) jointly prepared DOE/EIS-0212, Safe Interim Storage of Hanford Tank Waste Final Environmental Impact Statement (SIS EIS) (RL and Ecology 1995). Subsequently, the DOE issued the Record of Decision (ROD): Safe Interim Storage of Hanford Tank Wastes, Hanford Site, Richland, WA (DOE 1995a) on November 21, 1995, following concurrence by the State of Washington.

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The SSTs are currently operating in accordance with RCRA interim status requirements and will go directly to closure following retrieval. The DSTs are currently operating under RCRA interim status, and a RCRA final status permit (Part B) application is scheduled for submittal to Ecology in 2000. New project construction must be within the scope of the existing interim status or final status permits or a new or revised permit must be obtained before construction or operation.

#### **4.2.1.3.5 Tri-Party Agreement Requirements**

- TPA.M.17.0.B Complete implementation of "Best Available Technology/All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment (BAT/AKART) for all phase II liquid effluent streams at the Hanford Site. [Due Date: 1/31/98.]
- TPA.M.32.6 Complete 244-AR vault interim status tank actions. [Due Date: TBD]
- TPA.M.41.0 Complete interim stabilization activities for all single-shell tanks except 241-C-106 (to be retrieved in accordance with milestone M-45-03). Complete intrusion prevention for all single-shell tanks except 241-C-106. [Due Date: 9/30/2000]
- TPA.M.42.0 Provide additional Double Shell Tank Capacity, TBD.
- TPA.M.43.0 Complete tank farm upgrades. [Due Date: 6/30/2005]
- TPA.M.43.13 Start construction for upgrades in the second tank farm. [Due Date: 6/30/2000]
- TPA.M.43.14 Start construction for upgrades in the third tank farm. [Due Date: 3/31/2001]
- TPA.M.43.15 Start construction for upgrades in the fourth tank farm. [Due Date: 3/31/2002]
- TPA.M.43.16 Start construction for upgrades in the fifth tank farm. [Due Date: 6/30/2003]

#### **4.2.1.3.6 Interfaces**

**TABLE 4-7 Tank Farm Operations Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Hazardous Waste Disposal Contracts	EXTERNAL	Receives TF OPER, HAZ
Offsite Landfill	EXTERNAL	Receives TWRS Sanitary Solid Waste
Hanford Legacy	EXTERNAL	Provides Existing DST Waste Provides Existing SST/MUST Waste
Tank Waste Characterization	RL-TW01	Receives DST Waste for Sampling Receives SST Waste for Sampling
Tank Safety Issue Resolution	RL-TW02	Provides Authorization Basis Receives Conditions of Operations



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**TABLE 4-7 Tank Farm Operations Interfaces (Continued)**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Retrieval	RL-TW04	Provides DST Waste Provides Empty DSTs Provides Empty SSTs Provides Excess DST System Facilities Provides Excess SST System Facilities Provides Retrieved SST Waste, Phase I Provides Retrieved SST Waste, Phase II Receives Safe & Compliant Deactivated Double Shell Tank System Facilities Receives Safe & Compliant Deactivated Single Shell Tank System Facilities Receives SST Waste to Be Retrieved Receives Stored East Area DST Waste Receives Stored East Area Liquid Waste for Phase II Processing Receives Stored West Area DST Waste Receives Supernatant from DSTs for SST Sluicing
Privatization Phase I	RL-TW06	Provides LAW/HLW Plant Phase I, Entrained Solids for Return to DSTs
Solid Waste Storage & Disposal	RL-WM03	Receives DST RET, CH LLMW III Receives TF OPER, CH-LLMW-I Receives TF OPER, CH-LLMW-III Receives TF OPER, CH-LLW-I Receives TF OPER, RH-LLMW-I Receives TF OPER, RH-LLMW-III Receives TF VADOSE, CH-LLMW-I Receives TWP W314, CH-LLMW-I Receives TWP W314, CH-LLMW-III Receives TWP W314, CH-LLW-I Receives TWP W314, RH-LLMW-I Receives TWP W314, RH-LLMW-III
Solid Waste Treatment	RL-WM04	Provides Liquid Waste From 221-T to West Area DSTs Provides Waste from 221-T to 204-AR Provides Waste From 2706-T to 204-AR
Liquid Effluents	RL-WM05	Provides 242-A HLW from Training Runs Provides Concentrated Tank Waste Receives Dilute Tank Waste Receives Tank Farms Treated Liquid Effluent
Analytical Services	RL-WM06	Provides Liquid Waste From 222-S Lab to West Area DSTs Provides Waste from 222-S Lab to 204-AR Receives Analytical Laboratory Samples from TWRS Receives In-Field Laboratory Samples from TWRS
WESF	RL-TP02	Provides WESF-Misc. HLW
PUREX	RL-TP03	Provides PUREX-TCO (DN), HLW
PFP	RL-TP05	Provides PFP Stabilization, HLW Provides PFP Transition, HLW
324/327 Facility Transition	RL-TP08	Provides 324 Facility HLW Provides 327 Facility Radioactive/Mixed Liquid Waste to DSTs
100 Area Source Remedial Action	RL-ER01	Provides 105-F & 105-H Basin TCO, HLW
PNNL Waste Management	RL-ST01	Provides 325 Building, HLW

#### 4.2.1.3.7 Requirements References

- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"

#### 4.2.1.4 Retrieval

##### 4.2.1.4.1 Project Description Summary

The mission of the Retrieval Project is, "in an environmentally sound, safe, secure, and cost-effective manner, to:

1. Retrieve wastes from single-shell tanks, double-shell tanks, and designated miscellaneous underground storage tanks;
2. Provide waste to privatization contractors for processing; and
3. Close those tanks in accordance with regulatory requirements."

The Retrieval Project will establish the functions and requirements and install the equipment needed to deliver the proper waste feed on schedule to the private immobilization contractor for Phase I Privatization, and transition the waste retrieval and treatment to private contractors for Phase II Privatization.

The Tank Waste Remediation System (TWRS) Environmental Impact Statement Record of Decision calls for retrieval of wastes from all 149 single-shell tanks (SSTs), 28 double-shell tanks (DSTs), and miscellaneous underground storage tanks (MUSTs). Until all waste is retrieved, the DSTs must function to store and prepare waste retrieved from SSTs and MUSTs for waste treatment facilities.

##### 4.2.1.4.2 Life-Cycle Material and Waste Flow

The following tables contain the waste forecasts by facility and waste category that the project is planning to receive or generate over the full life cycle of the project's involvement with the facilities listed. The values listed are forecasts and not requirements allocated to the projects.

**Table 4-8 Retrieval Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
Tank Farm System	CH LLMW I	2001 - 2028	2210	cubic meters
	CH LLMW III	2001 - 2028	645.0	cubic meters
	CH LLW I	2007 - 2035	17700	cubic meters
	CH TRUM	2020 - 2028	491.0	cubic meters
	HLW	2007 - 2028	578000	cubic meters
	RH LLMW I	2007 - 2028	154.0	cubic meters
	RH LLMW III	2001 - 2028	27400	cubic meters
	RH TRUM	2008 - 2028	674.0	cubic meters

##### 4.2.1.4.3 Facility Life-Cycle Requirements

- Requirements

- DOE has decided to implement the Phased Implementation alternative for the tank waste.
  - The tank waste will be retrieved.
  - Single Shell Tank farms shall be closed by Sep 30, 2024
- 
- Planning Assumptions
    - Facilities other than processing facilities shall be dismantled.
    - Central Plateau tank farms shall be closed
    - Transitioned facilities shall be decontaminated and decommissioned sufficiently to enable removal or closure through entombment

#### **4.2.1.4.4 Project Safety Authorization Basis/NEPA and Permits**

The Authorization Basis consists of those aspects of the facility design basis and operational requirements relied upon by the DOE to authorize operation. These aspects are considered important to the safety of the facility operations. The complete list of documents that comprise the Authorization Basis for TWRS facilities and activities is provided in Attachment A of HNF-IP-0842, TWRS Administration, Volume IV, Section 5.4, "Unreviewed Safety Questions" (FDH 1998a). The current Authorization Basis does not include all activities planned by the Retrieval Project; therefore, modifications to the current Authorization Basis will be required.

To comply with NEPA requirements, the DOE and Ecology prepared DOE/EIS-0212, Safe Interim Storage of Hanford Tank Waste Final Environmental Impact Statement (SIS EIS) (RL and Ecology 1995). Subsequently, the DOE issued the Record of Decision (ROD): Safe Interim Storage of Hanford Tank Wastes, Hanford Site, Richland, WA (DOE 1995a) on November 21, 1995, following concurrence by the State of Washington.

The TWRS EIS ROD (DOE 1997a) addresses retrieval of the tank waste. Closure plans and NEPA ROD for closure will be developed.

The SSTs are currently operating in accordance with RCRA interim status requirements and will go directly to closure following retrieval. The DSTs are currently operating under RCRA interim status and a RCRA final status permit (Part B) application is scheduled for submittal to Ecology in 2000. New project construction must be within the scope of the existing interim status or final status permits or a new or revised permit must be obtained before construction or operation.

Construction and new (or modified) operations within the tank farms that result in emissions to the air require prior approval from the Washington State Department of Health and the U.S. Environmental Protection Agency (EPA) for radionuclides. Ecology approval is required for toxic air pollutants. A Notice of Construction is prepared for each major project and/or activity and submitted to the respective agency for review and approval. Construction cannot commence until all submitted Notices of Construction are approved.

Public and worker health and safety requirements are defined in the TWRS mission analysis, SRIDs, and the Safety Authorization Basis.

#### 4.2.1.4.5 Tri-Party Agreement Requirements

- TPA.M.45.3.T.1 Complete SST waste retrieval demonstration. [Due Date: 9/30/2003]
- TPA.M.45.3.T.2 Initiate final retrieval demonstration of C-106. [Due Date: 6/30/2002]
- TPA.M.45.4.T.1 Provide initial single-shell tank retrieval systems. [Due Date: 11/30/2003]
- TPA.M.45.4.T.3 Complete construction for the initial SST retrieval systems. [Due Date: 6/30/2003]
- TPA.M.45.5 Retrieve waste from all remaining single-shell tanks. [Due Date: 9/30/2018]
- TPA.M.45.5.T.1 Initiate tank waste retrieval from one single-shell tank. [Due Date: 12/31/2003]
- TPA.M.45.5.T.2 Initiate tank waste retrieval from two additional single-shell tanks. [Due Date: 9/30/2004]
- TPA.M.45.5.T.3 Initiate tank waste retrieval from three additional single-shell tanks. [Due Date: 9/30/2005]
- TPA.M.45.5.T.4 Initiate tank waste retrieval from four additional single-shell tanks. [Due Date: 9/30/2006]
- TPA.M.45.5.T.5 Initiate tank waste retrieval from five additional single-shell tanks. [Due Date: 9/30/2007]
- TPA.M.45.5.T.6 Initiate tank waste retrieval from five additional single-shell tanks. [Due Date: 9/30/2008]
- TPA.M.45.5.T.7 Initiate tank waste retrieval from seven additional single-shell tanks. [Due Date: 9/30/2009]
- TPA.M.45.5.T.8 Initiate tank waste retrieval from eight additional single-shell tanks. [Due Date: 9/30/2010]
- TPA.M.45.5.T.9 Initiate tank waste retrieval from ten additional single-shell tanks. [Due Date: 9/30/2011]
- TPA.M.45.5.T.10 Initiate tank waste retrieval from 12 additional single-shell tanks. [Due Date: 9/30/2012]
- TPA.M.45.5.T.11 Initiate tank waste retrieval from 14 additional single-shell tanks. [Due Date: 9/30/2013]
- TPA.M.45.5.T.12 Initiate tank waste retrieval from 17 additional single-shell tanks. [Due Date: 9/30/2014]
- TPA.M.45.5.T.13 Initiate tank waste retrieval from 20 additional single-shell tanks. [Due Date: 9/30/2015]
- TPA.M.45.5.T.14 Initiate tank waste retrieval from 20 additional single-shell tanks. [Due Date: 9/30/2016]
- TPA.M.45.5.T.15 Initiate tank waste retrieval from 20 additional single-shell tanks. [Due Date: 9/30/2017]

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- TPA.M.45.6 M-45-06 9/30/2024 Complete closure of all single-shell tank farms. The single-shell tank closure work plan will be prepared describing the work integration process for single-shell tank closures and status of work and integration process. Known issues will be identified and an explanation will be given on how these issues are being addressed. This work plan will be provided to Ecology for review/comment and will be used as a roadmap for closure of the single-shell tanks. Because of the uncertainties in the closure process, the work plan will evolve as these uncertainties are resolved and eventually it will become the SST closure/post-closure plan(s) issued for Ecology's approval under subsequent TPA interim milestones. Major work areas covered in the work plan will include waste retrieval, operable units characterization, technologies development to support closure, regulatory pathway and strategy for achieving closure.
- TPA.M.45.6.T.3 Initiate closure actions on an operable unit or tank farm basis. Closure shall follow completion of the retrieval actions under proposed milestone M-45-05. Closure will be defined in an approved closure plan for the demonstration farm. Final closure is defined as regulatory approval of completion of closure actions. [Due Date: 3/31/2012]
- TPA.M.45.6.T.4 Complete closure actions on one operable unit or tank farm. [Due Date: 3/31/2014 ]
- TPA.M.45.8 Establish full scale capability for mitigation of waste tank leakage during retrieval sluicing operations. [Due Date: 6/30/2003]
- TPA.M.45.8.B Complete demonstration and installation of leak monitoring and mitigation systems for initial SST retrieval. [Due Date: 6/30/2003]
- TPA.M.45.52 Submit to Ecology for review and approval as an Agreement primary document a site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA S-SX. [Due Date 10/31/99]
- TPA.M.45.53 Submit to Ecology for review and approval as an Agreement primary document a site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA B-BX-BY. [Due Date 5/31/00]
- TPA.M.45.54 Submit to Ecology for review and approval as an Agreement primary document a site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA T and WMA TX-TY. [Due Date 12/31/00]
- TPA.M.45.55 Submit to Ecology for review and approval as an Agreement primary document a Phase 1 RFI Report integrating results of data gathering activities and evaluations for WMAs S-SX, T, TX-TY, and B-BX-BY and related activities including groundwater monitoring and impacts assessment using Hanford Site groundwater models, with conclusions and recommendations. [Due Date 2/29/04]
- TPA.M.45.55.T.1 Submit to Ecology for review and approval as an Agreement secondary document a Field Investigation Report pursuant to the site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA S-SX. [Due Date 4/30/01]
- TPA.M.45.55.T.2 Submit to Ecology for review and approval as an Agreement secondary document a Field Investigation Report pursuant to the site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA B-BX-BY. [Due Date 4/30/01]
- TPA.M.45.55.T.3 Submit to Ecology for review and approval as an Agreement secondary document a Field Investigation Report pursuant to the site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA T and WMA TX-TY. [Due Date 6/30/03]
- TPA.M.45.56 Complete implementation of agreed-to interim measures. [Due TBD]
- TPA.M.45.56.T.1 Summarize results of engineering studies and recommendations on isolating water lines in or near SST WMAs, sealing abandoned wells in or near SST WMAs, and controlling surface drainage at SST WMAs and submit these results to Ecology. [Due Date 10/31/99]

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- TPA.M.45.58 Submit to Ecology for review and approval as an Agreement primary document a Corrective Measures Study for interim corrective measures. [Due TBD]
- TPA.M.45.59 Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST WMAs. [Due TBD]
- TPA.M.45.60 Submit to Ecology for review and approval as an Agreement primary document DOE's RFI/CMS Work Plan for SST WMAs. [Due Date 6 months following RFI Report Approval]

#### 4.2.1.4.6 Interfaces

**TABLE 4-9 Retrieval Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Tank Farm Operations	RL-TW03	Provides Safe & Compliant Deactivated Double Shell Tank System Facilities Provides Safe & Compliant Deactivated Single Shell Tank System Facilities Provides SST Waste to Be Retrieved Provides Stored East Area DST Waste Provides Stored East Area Liquid Waste for Phase II Processing Provides Stored West Area DST Waste Provides Supernatant from DSTs for SST Sluicing Receives DST Waste Receives Empty DSTs Receives Empty SSTs Receives Excess DST System Facilities Receives Excess SST System Facilities Receives Retrieved SST Waste, Phase I Receives Retrieved SST Waste, Phase II
Privatization Phase I	RL-TW06	Receives LAW/HLW Plant, Phase I HLW Feed Receives LAW/HLW Plant, Phase I LAW Feed
Privatization Phase II	RL-TW07	Receives LAW Treatment Facility, Phase II Feed
Solid Waste Storage & Disposal	RL-WM03	Receives DST RET, CH-LLMW-I Receives DST RET, RH-LLMW-III Receives SST LLE, CH-TRUM Receives SST LLE, RH-LLMW-III Receives SST LLE, RH-TRUM Receives SST RET, CH-LLMW-I Receives SST RET, CH-LLMW-III Receives SST RET, CH-LLW-I Receives SST RET, RH-LLMW-I Receives SST RET, RH-LLMW-III Receives TWP W211, CH-LLMW-I Receives TWP W211, CH-LLMW-III Receives TWP W211, RH-LLMW-III Receives TWP W211, RH-TRUM

#### 4.2.1.4.7 Requirements References

- DOE/EIS-0189-ROD, Record of Decision for the Tank Waste Remediation System, Hanford Site, Richland, Washington. "
- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"

- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"

#### **4.2.1.5 Process Waste Support**

##### **4.2.1.5.1 Project Description Summary**

The mission of Process Waste Support is to assist the ORP in the management of Privatization Phase 1 and Privatization Phase 2. This includes the integration of privatized and non-privatized activities; assisting in the execution of the privatization contracts; managing interfaces with the PHMC and Private Contractors; assisting in managing the interfaces with stakeholders and regulators; and assisting in the management of the key risks and key decisions associated with tank waste disposal.

##### **4.2.1.5.2 Life-Cycle Material and Waste Flow**

This project has no responsibility for managing waste inventory.

##### **4.2.1.5.3 Facility Life-Cycle Requirements**

- Requirements
  - None
- Planning Assumptions
  - None

##### **4.2.1.5.4 Project Safety Authorization Basis/NEPA and Permits**

The Process Waste Support Project is an administration and integration project that does not have facility or operation responsibilities. The Process Waste Support Project does not require a safety Authorization Basis.

This project shall support implementation of the TWRS EIS ROD (DOE 1997a).

It is assumed the DOE will retain overall responsibility for ensuring protection of the public and the environment for privatized and non-privatized activities. A special Regulatory Unit reporting directly to the RL Operations manager has been established to provide independent radiological and nuclear safety oversight of the private contractors. This responsibility may be assumed by the Nuclear Regulatory Commission in the future.

#### 4.2.1.5.5 Tri-Party Agreement Requirements

- None

#### 4.2.1.5.6 Interfaces

#### 4.2.1.5.7 Requirements References

- None

#### 4.2.1.6 Privatization Phase I

##### 4.2.1.6.1 Project Description Summary

Phase I objectives are to: demonstrate the technical and business viability of using privatized facilities to treat Hanford tank waste; define and maintain required levels of radiological, nuclear, process, and occupational safety; maintain environmental protection and compliance; and substantially reduce life-cycle costs and time required to treat Hanford tank waste. This project demonstrates progress in limiting potential contamination of the Columbia River by removing high-level waste from underground storage tanks which can leak into the groundwater.

##### 4.2.1.6.2 Life-Cycle Material and Waste Flow

The following tables contain the waste forecasts by facility and waste category that the project is planning to receive or generate over the full life cycle of the project's involvement with the facilities listed. The values listed are forecasts and not requirements allocated to the projects.

**Table 4-10 Privatization Phase I Waste/Material Flow (In)**

Major Facility	Category	Period	Value	Units
LAW/HLW Plant, Phase 1	HLW	2007 - 2018	46200	cubic meters

**Table 4-11 Privatization Phase I Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
LAW/HLW Plant, Phase 1	CH LLMW I	2006 - 2019	1230	cubic meters
	CH LLMW III	2018 - 2019	142.0	cubic meters
	CH LLW I	2012 - 2014	289000	cubic meters
	HLW	2007 - 2018	725.0	cubic meters
	RH LLMW I	2010 - 2019	1740	cubic meters
	RH LLMW III	2008 - 2018	23700	cubic meters
	Treated Liquid Effluent	2003 - 2019	2430000	cubic meters
	Waste Water	2003 - 2019	759000	cubic meters



#### 4.2.1.6.3 Facility Life-Cycle Requirements

- Requirements
  - DOE has decided to implement the Phased Implementation alternative for the tank waste.
  - The waste will be separated into low-activity waste and high-level waste through physical and chemical processes and then treated in demonstration-scale facilities.
  - Vitrified high-level waste will be prepared for interim storage at the Canister Storage Building.
  - Immobilized low-activity waste will be prepared for future onsite disposal.
  - High level waste immobilization facility shall start operations by Dec 2009.
  - Tank waste commercial demonstration facility (ies) shall be constructed.
  - The TWRS Privatized Facility for Phase I shall comply with the requirements contained in the TWRS Privatization Contract, No. DE-RP06-96RL13308.
- Planning Assumptions
  - Future facilities shall be converted to a low cost stable deactivated condition when their functionality is no longer required to meet operational objectives.
  - Processing facilities shall be entombed in place with co-disposal of waste materials
  - Facilities other than processing facilities shall be dismantled.
  - Transitioned facilities shall be decontaminated and decommissioned sufficiently to enable removal or closure through entombment
  - Facilities shall be maintained within the approved safety envelope
  - Tank waste processing shall be operated within the approved safety envelope as approved by the REG Unit.
  - Tank waste shall be separated into High Level and Low Activity fractions.

#### 4.2.1.6.4 Project Safety Authorization Basis/NEPA and Permits

The private contractor shall develop and implement an integrated, standards-based, safety management program to ensure that radiological, nuclear, and process safety requirements are defined, implemented, and maintained. Radiological, nuclear, and process safety requirements shall be adapted to the specific hazards that are identified with the contractor's waste treatment services.

The contractor's integrated standards-based safety management program shall be developed to comply with the specific nuclear safety regulations defined under the 10 CFR 800 series of nuclear safety requirements and with the regulatory program established in the following:

- DOE/RL-96-03, DOE Regulatory Process for Radiological, Nuclear, and Process Safety for TWRS Privatization Contractors (Vieth 1996a)
- DOE/RL-96-04, Process for Establishing a Set of Radiological, Nuclear, and Process Safety Standards and Requirements for TWRS Privatization (Vieth 1996b)
- DOE/RL-96-05, Concept of the DOE Regulatory Process for Radiological, Nuclear, and

**DOE/RL-97-55**  
**Revision 1d**

Process Safety for TWRS Privatization Contractors (Vieth 1996c)

· DOE/RL-96-06, Top-Level Radiological, Nuclear, and Process Safety Standards and Principles for TWRS Privatization Contractors (Vieth 1996d).

The contractor shall prepare and submit to the DOE Regulatory Unit for review and approval several radiological, nuclear, and process safety deliverables in accordance with the privatization contract.

#### **4.2.1.6.5 Tri-Party Agreement Requirements**

- TPA.M.20.58 Submit LAW Facility Part B Dangerous Waste Permit Application to Ecology. [Due Date: 12/31/2003]
- TPA.M.50.4 Start hot operations of HLW Pretreatment Facility. [Due Date: 6/30/2008]
- TPA.M.51.3 Initiate hot operations of the HLW Vitrification Facility. [Due Date: 12/31/2009]
- TPA.M.51.3.T.3 Initiate construction of the HLW vitrification facility. [Due Date: 6/30/2002]
- TPA.M.51.3.T.4 Complete construction of the HLW vitrification facility. [Due Date: 12/31/2007]

#### **4.2.1.6.6 Interfaces**

**TABLE 4-12 Privatization Phase I Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Hazardous Waste Disposal Contracts	EXTERNAL	Receives BNFL VIT, HAZ
Tank Farm Operations	RL-TW03	Receives LAW/HLW Plant Phase I, Entrained Solids for Return to DSTs
Retrieval	RL-TW04	Provides LAW/HLW Plant, Phase I HLW Feed Provides LAW/HLW Plant, Phase I LAW Feed
Immobilized Tank Waste Storage & Disposal	RL-TW09	Provides Phase I IHLW Transportation Mechanism Receives LAW/HLW PH-1 Immobilized LAW Receives LAW/HLW Ph-I Non-Routine High-Level Solid Waste Receives Phase I IHLW Production Information Receives Phase I LAW/HLW Plant IHLW
Solid Waste Storage & Disposal	RL-WM03	Receives BNFL VIT, CH-LLMW-I Receives BNFL VIT, CH-LLMW-III Receives BNFL VIT, CH-LLW-I Receives BNFL VIT, CH-LLW-III Receives BNFL VIT, RH-LLMW-I Receives BNFL VIT, RH-LLW-III
Liquid Effluents	RL-WM05	Receives LAW/HLW Plant Phase 1 Deactivation Non-radioactive/Non-dangerous Liquid Effluent Receives LAW/HLW Plant Phase I, Deactivation Waste Water Receives LAW/HLW Plant Phase I, Non-radioactive/Non-dangerous Liquid Effluent Receives LAW/HLW Plant Phase I, Waste Water

#### **4.2.1.6.7 Requirements References**

- DE-RP06-96RL13308, TWRS Privatization Contract, DE-RP06-96RL13308"
- DOE/EIS-0189-ROD, Record of Decision for the Tank Waste Remediation System, Hanford Site, Richland, Washington. "
- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"

#### **4.2.1.7 Privatization Phase II**

##### **4.2.1.7.1 Project Description Summary**

Phase II will be the full-scale production phase, in which the facilities will be configured so all the waste can be processed. The objectives of Phase II are to implement the lessons from Phase I; to process all tank waste and the cesium and strontium capsules into forms suitable for final disposal; achieve competition and cost savings; and meet the Tri-Party Agreement milestones.

##### **4.2.1.7.2 Life-Cycle Material and Waste Flow**

The following tables contain the waste forecasts by facility and waste category that the project is planning to receive or generate over the full life cycle of the project's involvement with the facilities listed. The values listed are forecasts and not requirements allocated to the projects.

**Table 4-13 Privatization Phase II Waste/Material Flow (In)**

<b>Major Facility</b>	<b>Category</b>	<b>Period</b>	<b>Value</b>	<b>Units</b>
LAW Treatment Facility, Phase 2	HLW	2012 - 2028	531000	cubic meters
HLW Treatment Facility, Phase 2	HLW	2012 - 2028	168000	cubic meters

**Table 4-14 Privatization Phase II Waste/Material Flow (Out)**

<b>Major Facility</b>	<b>Category</b>	<b>Period</b>	<b>Value</b>	<b>Units</b>
LAW Treatment Facility, Phase 2	CH LLMW I	2006 - 2019	1230	cubic meters
	CH LLMW III	2018 - 2019	142.0	cubic meters
	HLW	2012 - 2028	168000	cubic meters
	RH LLMW I	2010 - 2019	1740	cubic meters
	RH LLMW III	2012 - 2028	227000	cubic meters
	Sanitary Liquid Waste	2000 - 2033	1690	Mgal
	Sanitary Solid Waste	2000 - 2033	78.2	tons
	Treated Liquid Effluent	2012 - 2028	3490000	cubic meters
	Waste Water	2012 - 2029	580000	cubic meters
HLW Treatment Facility, Phase 2	CH LLMW III	2012 - 2020	5.0	cubic meters
	HLW	2012 - 2028	16400	cubic meters
	Treated Liquid Effluent	2012 - 2029	3490000	cubic meters
	Waste Water	2012 - 2029	580000	cubic meters

##### **4.2.1.7.3 Facility Life-Cycle Requirements**

- Requirements

- DOE has decided to implement the Phased Implementation alternative for the tank waste.
- The tank waste will be separated into low-activity and high-level waste
- High level tank waste shall be immobilized.
- Low activity tank waste shall be immobilized.

- Planning Assumptions

- Future facilities shall be converted to a low cost stable deactivated condition when their functionality is no longer required to meet operational objectives.
- Processing facilities shall be entombed in place with co-disposal of waste materials
- Facilities other than processing facilities shall be dismantled.
- Transitioned facilities shall be decontaminated and decommissioned sufficiently to enable removal or closure through entombment
- Facilities shall be maintained within the approved safety envelope
- The contents of the cesium capsules shall be blended with HLW feed, treated and dispositioned as immobilized HLW.
- The contents of the strontium capsules shall be blended with HLW feed, treated and dispositioned as immobilized HLW.
- Tank waste shall be separated into High Level and Low Activity fractions.

#### 4.2.1.7.4 Project Safety Authorization Basis/NEPA and Permits

The requirements for the safety authorization basis for Phase II have not been developed. It is assumed that each private contractor will develop and implement an integrated, standards-based, safety management program to ensure that radiological, nuclear, and process safety requirements are defined, implemented, and maintained in accordance with U.S. Nuclear Regulatory Commission policies and procedures.

#### 4.2.1.7.5 Tri-Party Agreement Requirements

- TPA.M.50.0 Complete pretreatment processing of Hanford tank waste. [Due Date: 12/31/2028]
- TPA.M.61.0 Complete pretreatment and immobilization of Hanford Low Activity Waste (LAW). [Due Date: 12/31/2028]

#### 4.2.1.7.6 Interfaces

**TABLE 4-15 Privatization Phase II Interfaces**

Project Title	Project Number	Interface
Offsite Landfill	EXTERNAL	Receives Phase 2 Treatment Sanitary Solid Waste
Hazardous Waste Disposal Contracts	EXTERNAL	Receives BNFL VIT, HAZ Receives HLVP, HAZ
Retrieval	RL-TW04	Provides LAW Treatment Facility, Phase II Feed

**TABLE 4-15 Privatization Phase II Interfaces (Continued)**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Immobilized Tank Waste Storage & Disposal	RL-TW09	Receives Phase II HLW Plant IHLW Receives Phase II LAW Plant ILAW
Solid Waste Storage & Disposal	RL-WM03	Receives BNFL VIT, CH-LLMW-I Receives BNFL VIT, CH-LLMW-III Receives BNFL VIT, CH-LLW-I Receives BNFL VIT, CH-LLW-III Receives BNFL VIT, RH-LLMW-I Receives BNFL VIT, RH-LLW-III Receives HLVP, CH-LLMW-I Receives HLVP, CH-LLMW-III Receives HLVP, CH-LLW-I Receives HLVP, CH-LLW-III Receives HLVP, CH-TRUM Receives HLVP, RH-LLW-III Receives HLVP, RH-TRUM
Liquid Effluents	RL-WM05	Receives HLW Phase 2 Deactivation Waste Water Receives LAW Phase 2 Deactivation Waste Water Receives LAW Phase 2 Non-radioactive/Non-dangerous Liquid Effluent Receives LAW Phase 2 Waste Water Receives TWRS Ph2 HLW Deactivation WW, Non-radioactive/Non-dangerous Liquid Effluent Receives TWRS Ph2 HLW WW, Non-radioactive/Non-dangerous Liquid Effluent Receives TWRS Priv Ph 2 HLW, Waste Water
WESF	RL-TP02	Provides WESF Cesium Capsules Provides WESF Strontium Capsules

#### **4.2.1.7.7 Requirements References**

- DOE/EIS-0189-ROD, Record of Decision for the Tank Waste Remediation System, Hanford Site, Richland, Washington. "
- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"

#### **4.2.1.8 Privatization Infrastructure**

##### **4.2.1.8.1 Project Description Summary**

Part of the RPP mission is to separate the Hanford Site's tank waste into low-activity waste (LAW) and high-level waste (HLW) fractions and to immobilize and dispose of them in an environmentally sound, safe, and cost-effective manner. To achieve this, a two-phased strategy that uses the private sector has been implemented to treat and immobilize the LAW and HLW fractions. Phase I will treat, immobilize, and store or dispose approximately 10 percent (by volume) of the tank waste. Phase II will pretreat, immobilize, and dispose of the remainder of the tank waste, using full-scale production facilities.

The contract that DOE-RL and the privatization contractor signed in August 1998 establishes the general scope and timing requirements for the Privatization Infrastructure Program. These requirements are defined in more detail in the TWRS Privatization Project Interface Control Document (BNFL 1998), and will be further modified as a result of the DOE-RL's decision on whether to proceed with privatization in August 2000.

#### **4.2.1.8.2 Life-Cycle Material and Waste Flow**

This project has no responsibility for managing waste inventory.

#### **4.2.1.8.3 Facility Life-Cycle Requirements**

- Requirements
  - None
- Planning Assumptions
  - None

#### **4.2.1.8.4 Project Safety Authorization Basis/NEPA and Permits**

The Authorization Basis consists of those aspects of the facility design basis and operational requirements relied upon by the DOE to authorize operation. These aspects are considered important to the safety of the facility operations. The complete list of documents that comprise the Authorization Basis for RPP facilities and activities is provided in Attachment A of HNF-IP-0842, TWRS Administration, Volume IV, Section 5.4, "Unreviewed Safety Questions" (FDH 1998a). In addition, the Waste Management Authorization Basis applies to some elements of this project. The Privatization Infrastructure Project facilities and activities will be evaluated to verify that they are within the current Authorization Basis. If any facilities or activities are determined to be outside the current Authorization Basis, modifications to the Authorization Basis will be required.

#### **4.2.1.8.5 Tri-Party Agreement Requirements**

- None

#### **4.2.1.8.6 Interfaces**

The Privatization Infrastructure Project will provide selected utilities and services that connect the Privatization Phase I and Privatization Phase II facilities with interfacing facilities noted in Sections 4.2.1.6.8 and 4.2.1.7.8. Utilities included are raw and potable water, electricity, and road access. Services included are radioactive solid waste and liquid effluent disposal.

#### 4.2.1.8.7 Requirements References

- None

#### 4.2.1.9 Immobilized Tank Waste Storage & Disposal

##### 4.2.1.9.1 Project Description Summary

The Immobilized Tank Waste Storage & Disposal project will provide safe storage and final near-surface disposal on the Hanford Site for immobilized low activity tank waste (ILAW), and interim storage for immobilized high level waste (IHLW).

The ILAW project will be complete when the immobilized low activity tank waste is disposed of on the Hanford site, long term surveillance and monitoring of the ILAW disposal site is ongoing, and interim storage facilities have been decontaminated and decommissioned, and closure barriers have been placed over disposal sites. The ILAW Storage and Disposal facilities will accept the immobilized low activity tank waste from TWRS privatization vendor. The ILAW waste packages will be placed in near surface disposal facilities. The near surface disposal systems along with the waste package are to meet DOE regulatory requirements for near-surface disposal of low-level waste.

The IHLW Interim Storage Facility will receive IHLW, and transport these products to a Canister Storage Building (CSB), where the product will be stored until shipped to a geologic repository. Storage of the Phase I product in the CSB will consolidate the high level waste in one area and provide a safe environmentally sound storage of the IHLW product. HLW Interim Storage will provide additional storage capacity during Phase 1B and II privatization. In addition HLW Interim Storage will provide loadout capability for shipment of IHLW canisters to a geologic repository.

IHLW and ILAW waste receipts are currently planned to commence in 2007 and 2008, respectively.

##### 4.2.1.9.2 Life-Cycle Material and Waste Flow

The following tables contain the waste forecasts by facility and waste category that the project is planning to receive or generate over the full life cycle of the project's involvement with the facilities listed. The values listed are forecasts and not requirements allocated to the projects.

**Table 4-16 Immobilized Tank Waste Storage & Disposal Waste/Material Flow (In)**

Major Facility	Category	Period	Value	Units
Canister Storage Building	HLW	2007 - 2018	725.0	cubic meters
IHLW Storage Modules, Part 2	HLW	2012 - 2028	16400	cubic meters
Immobilized LAW Disposal Facility	RH LLMW III	2008 - 2028	251000	cubic meters

**Table 4-17 Immobilized Tank Waste Storage & Disposal Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
Canister Storage Building	HLW	2036 - 2036	725.0	cubic meters
IHLW Storage Modules, Part 2	HLW	2036 - 2044	16400	cubic meters
	Sanitary Liquid Waste	2000 - 2042	16.7	Mgal
	Sanitary Solid Waste	2041 - 2044	402000	cubic meters
	Sanitary Solid Waste	2000 - 2043	407.0	tons

#### **4.2.1.9.3 Facility Life-Cycle Requirements**

- Requirements

- DOE has decided to implement the Phased Implementation alternative for the tank waste.
- Vitrified high-level waste will be placed in interim storage at the Canister Storage Building pending future disposal at a national geologic repository.
- The immobilized low activity waste will be disposed of onsite in near-surface disposal facilities.
- The high level waste produced during Phase II will be temporarily stored on-site.
- Immobilized low activity tank waste shall be disposed in the Central Plateau.
- Immobilized high level waste interim storage facility shall be provided.
- Acceptance of HLW into the Civilian Radioactive Waste Management System (CRWMS) shall be in accordance with DOE/RW-0351P, rev.1, Waste Acceptance System Requirements.

- Planning Assumptions

- Remediation levels and disposal standards that are consistent with long term uses for the central plateau shall be established by either the Resource Conservation and Recovery Act of 1976 (RCRA), CERCLA, or NEPA.
- Future facilities shall be converted to a low cost stable deactivated condition when their functionality is no longer required to meet operational objectives.
- Facilities other than processing facilities shall be dismantled.
- Transitioned facilities shall be decontaminated and decommissioned sufficiently to enable removal or closure through entombment
- Central Plateau shall be used for the disposal of radioactive waste materials that remain onsite.
- Immobilized high level waste shall be shipped to the national high level waste repository.
- Central Plateau facilities shall be maintained within the approved safety envelope
- Facilities shall be maintained within the approved safety envelope

#### **4.2.1.9.4 Project Safety Authorization Basis/NEPA and Permits**

The Authorization Basis consists of those aspects of the facility design basis and operational requirements relied upon by the DOE to authorize operation. These aspects are considered



important to the safety of the facility operations. The complete list of documents that comprise the Authorization Basis for RPP facilities and activities is provided in Attachment A of HNF-IP-0842, TWRS Administration, Volume IV, Section 5.4, "Unreviewed Safety Questions" (FDH 1998a). The current Authorization Basis does not include all activities of the Immobilized Tank Waste Storage & Disposal Project. Therefore, modifications to the current Authorization Basis will be required.

The project has defined and planned the necessary permits that need to be prepared, reviewed, and issued before startup of the facilities. The recently issued TWRS EIS (DOE 1996a) and ROD (DOE 1997a) provide NEPA coverage for ILAW and IHLW storage and disposal.

A performance assessment is being prepared to examine the long-term environmental and human health effects associated with the planned disposal of the ILAW. The assessment is required by Tri-Party Agreement Milestone M-90-05-T01, "Submit Final ILAW Disposal Facility Performance Agreement to Ecology for Review." The U.S. Nuclear Regulatory Commission has indicated that the ILAW would be considered "incidental waste" if the DOE follows its program plan for separating and immobilizing the waste to the maximum extent technically and economically practical. In addition, the ILAW must meet Class C standards of 10 CFR 61. If the performance assessments continue to show that public health and safety would be protected to standards comparable to those established by the U.S. Nuclear Regulatory Commission for the disposal of LLW, the U.S. Nuclear Regulatory Commission will consider it incidental waste. Currently, the DOE and its contractors are obligated to meet the requirements of DOE Order 5820.2A. It is anticipated that DOE Order 435.1 will become the primary regulation governing management and disposal of radioactive wastes at DOE facilities.

The contractor is responsible for obtaining the required permits to support facility operation.

#### **4.2.1.9.5 Tri-Party Agreement Requirements**

- TPA.M.20.56 Submit Canister Storage Facility Part B Dangerous Waste Permit Application to Ecology. [Due Date: 12/31/2000]
- TPA.M.20.57 Submit Interim ILAW Facility Part B Dangerous Waste Permit Application to Ecology. [Due Date: 12/31/2000]
- TPA.M.90.0 Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities as necessary for storage of Hanford Site IHLW and ILAW, and disposal of ILAW. [Due Date: TBD. Six months after approval of Project Management Plan]
- TPA.M.90.3 Initiate ILAW Interim Storage Facility construction. [Due Date: 6/30/2001]
- TPA.M.90.6 Initiate Hot Operations of ILAW Interim Storage Facility. [Due Date: 12/31/2002]
- TPA.M.90.8 Complete ILAW Disposal Facility Construction [Due Date: 6/30/2003]
- TPA.M.90.10 Initiate Hot Operations of ILAW Disposal Facility [Due Date: 12/31/2005]

#### **4.2.1.9.6 Interfaces**

**TABLE 4-18 Immobilized Tank Waste Storage & Disposal Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
National Geologic Repository	EXTERNAL	Receives Phase I IHLW from CSB Receives Phase II IHLW from IHLW Phase II Storage
Offsite Landfill	EXTERNAL	Receives HLW Storage, Sanitary Solid Waste Receives IHLW Storage Sanitary Solid Waste
Privatization Phase I	RL-TW06	Provides LAW/HLW PH-1 Immobilized LAW Provides LAW/HLW Ph-I Non-Routine High-Level Solid Waste Provides Phase I IHLW Production Information Provides Phase I LAW/HLW Plant IHLW Receives Phase I IHLW Transportation Mechanism
Privatization Phase II	RL-TW07	Provides Phase II HLW Plant IHLW Provides Phase II LAW Plant ILAW
Canister Storage Building Operations	RL-WM02	Receives Excess Canister Storage Building
ER Disposal Facility (ERDF)	RL-ER04	Receives Rubble from the IHLW Storage Modules, Phase II Facility Demolition

#### **4.2.1.9.7 Requirements References**

- DOE/EIS-0189-ROD, Record of Decision for the Tank Waste Remediation System, Hanford Site, Richland, Washington. "
- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"
- DOE/RW-0351P, Waste Acceptance System Requirements Document"

#### **4.2.1.10 RPP Management Support**

##### **4.2.1.10.1 Project Description Summary**

The RPP Management Support Project (MSP) provides program management services and oversight that sustain RPP integration and control. Practical products of MSP work are systems developed, improved, deployed, and maintained to structure program strategy, direction and business management in support of the RPP technical functions, waste storage and waste disposal. Primary MSP functions include: 1) executive management and strategic planning; 2) systems engineering to support risk and decision management and ongoing evolution of the RPP technical bases; 3) administration of a core program and crosscutting services to ensure environmental, safety, health and quality assurance compliance to all regulatory and contractual requirements applicable for RPP; 4) and life-cycle project management that includes work to establish and maintain technical, cost and schedule elements for the RPP baseline.

##### **4.2.1.10.2 Life-Cycle Material and Waste Flow**

This project has no responsibility for managing waste inventory.

#### **4.2.1.10.3 Facility Life-Cycle Requirements**

- Requirements
  - None
- Planning Assumptions
  - None

#### **4.2.1.10.4 Project Safety Authorization Basis/NEPA and Permits**

The RPP Management Support Project is a management and integration project that does not have facility or operation responsibilities. The RPP Management Support Project does not require a Safety Authorization Basis.

#### **4.2.1.10.5 Tri-Party Agreement Requirements**

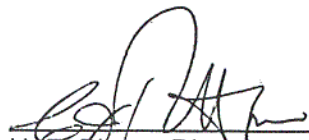
- None

#### **4.2.1.10.6 Interfaces**


#### **4.2.1.10.7 Requirements References**

- None

Concurrence:

  
H. E. Bilson, Director  
Waste Programs Division,  
U.S. Department of Energy,  
Richland Operations Office

Approved by:

  
J. M. Augustenborg, Acting  
Manager  
Assistant Manager for Waste  
Management,  
U.S. Department of Energy,  
Richland Operations Office

#### **4.2.2 Waste Management Project**

This project has the lead to ensure waste minimization programs are applied across the Hanford Site in accordance with DOE/RL-91-31, Hanford Site Waste Minimization and Pollution Prevention Program Plan (RL 1997a).

The Mission of the Hanford Waste Management Project is to provide safe, compliant, and cost-effective waste management services for the Hanford Site and DOE complex. These services include solid waste storage, treatment, and disposal and management of liquid effluents. In addition, the Project provides cross-cutting support services including analytical services, waste generator services, transportation and packaging, and waste minimization.

##### **4.2.2.a Project Structure**

- Solid Waste Storage & Disposal (RL-WM03)
- Solid Waste Treatment (RL-WM04)
- Liquid Effluents (RL-WM05)
- Analytical Services (RL-WM06)

##### **4.2.2.b Hanford Strategic Plan Goals**

The Waste, Material, and Geographic Area Goals contained in the Hanford Strategic Plan (DOE/RL-96-92), represent planning assumptions around which the Hanford Environmental Management effort is structured. Each Mission Area and Project partially support each of these goals, per scope of work described in the Prime Contracts. As an aggregate, all Mission Areas and Projects will fulfill the requirements of the Hanford Strategic Plan. As such, the Goals identified in this section cover only the goals directly supported by that specific Mission Area. Further details are contained in the Project planning documents. As records-of-decision are issued, these Goals will be amended in future revisions of the Hanford Strategic Plan.

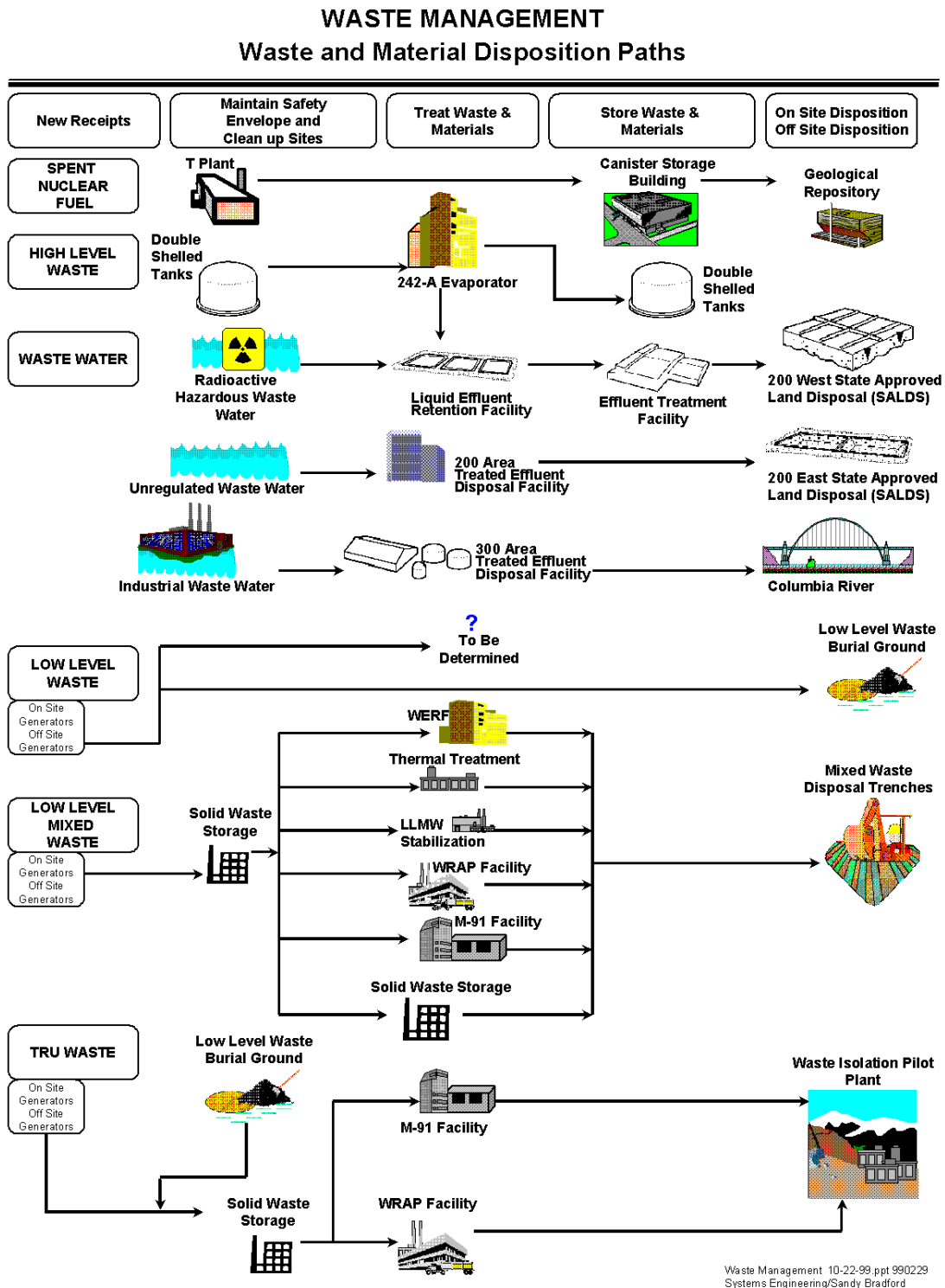
- The 200 Areas and central plateau will be used for the management of nuclear materials and the collection and disposal of waste materials that remain onsite and for other related and compatible uses. Cleanup levels and disposal standards will be established that are consistent with these long-term uses.
- The 300 Area waste sites, materials and facilities will be remediated to allow industrial and economic diversification opportunities. The Federal government will retain ownership of land in and adjacent to the 300 and 400 Areas, but will lease land for private and public uses to support regional industrial and economic development. Excess land within the 1100 Area will be targeted for transition to non-Federal ownership.
- Solid wastes will be dispositioned consistent with national policies for management of transuranic, low level, low level mixed and hazardous wastes. Hanford will continue to receive onsite and offsite wastes for disposal in the 200 Area.

- Safe, stable, secure onsite storage will be provided for all nuclear materials pending decisions on final disposition or until beneficial offsite uses are identified. Facilities without identified future uses will be transitioned to low-cost, stable deactivated conditions (requiring minimal surveillance and maintenance) pending eventual D&D and removal or closure.
- Surplus facilities will be decommissioned and decontaminated sufficiently to enable removal or closure through entombment.
- Spent nuclear fuels will be prepared and packaged as necessary for interim, dry storage onsite, and shipped offsite for disposal in a national repository.

#### **4.2.2.c Technical Logic**

Figure 4-3 presents the material flow/logic for the entire Waste Management Project.

Figure 4-3 Waste Management Material/Flow Logic



4.2.2.d Facility Life-Cycle Responsibility Assignments

Table 4-19 Waste Management Facility Life-Cycle Responsibility Assignments

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
200 LEF	RL-WM05				RL-WM05		RL-ER02 RL-ER06
242-A Evaporator	RL-WM05				RL-WM05	RL-ER05 RL-TP10	RL-ER06 RL-ER07
242A	RL-WM05				RL-WM05	RL-TP10 RL-TP13	RL-ER06 RL-TP13
242AB	RL-WM05				RL-WM05	RL-TP10 RL-TP13	RL-ER06 RL-TP13
Liquid Effluent Retention Facility	RL-WM05				RL-WM05	RL-ER05 RL-TP10	RL-ER06 RL-ER07
242AL	RL-WM05				RL-WM05		RL-ER06
242AL-42	RL-WM05				RL-WM05	RL-TP10	RL-ER06
242AL-43	RL-WM05				RL-WM05	RL-TP10	RL-ER06
242AL-44	RL-WM05				RL-WM05	RL-TP10	RL-ER06
242AL11	RL-WM05				RL-WM05	RL-TP10	RL-ER06
200 Area Effluent Treatment Facility	RL-WM05				RL-WM05	RL-ER05 RL-TP10	RL-ER06 RL-ER07
2025E	RL-WM05				RL-WM05	RL-TP10	RL-ER06
2025EA	RL-WM05				RL-WM05		RL-ER06
2025EC	RL-WM05				RL-WM05	RL-TP10	RL-ER06
2025EC71	RL-WM05				RL-WM05	RL-TP10	RL-ER06
200 Area Treated Effluent Disposal Facility	RL-WM05				RL-WM05	RL-TP13	RL-TP13
216E-43A	RL-WM05				RL-WM05	RL-TP13	RL-TP13
216E-43B	RL-WM05				RL-WM05	RL-TP13	RL-TP13
225E	RL-WM05				RL-WM05	RL-TP13	RL-TP13
225W	RL-WM05				RL-WM05	RL-TP10	RL-ER06
6653A	RL-WM05				RL-WM05	RL-TP13	RL-TP13
Miscellaneous Streams	RL-WM05				RL-WM05		RL-ER06
200E SALDS	RL-WM05				RL-WM05	RL-TP13	RL-ER06 RL-TP13
200W SALDS	RL-WM05				RL-WM05	RL-TP13	RL-ER06 RL-TP13
242A702	RL-WM05				RL-WM05	RL-TP13	RL-ER06 RL-TP13
242A81	RL-WM05				RL-WM05	RL-TP13	RL-ER06 RL-TP13
PUREX	RL-TP03					RL-ER05 RL-TP03	RL-ER06 RL-ER07
225EC	RL-TP03				RL-WM05	RL-TP13	RL-TP13
T-Plant Canyon Facility	RL-WM04				RL-WM04	RL-ER05 RL-TP10	RL-ER06 RL-ER07
211T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
211T52	RL-WM04				RL-WM04	RL-TP10	RL-ER06
214T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
222T	RL-WM04					RL-TP10	RL-ER06
221T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
221TA	RL-WM04				RL-WM04	RL-TP10	RL-ER06
221TB	RL-WM04				RL-WM04	RL-TP10	RL-ER06
225WA	RL-WM04				RL-WM04	RL-TP10	RL-ER06
231T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2715T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2716T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
271T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
277T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
291T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
292T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2706T Facility	RL-WM04				RL-WM04	RL-ER05 RL-TP10	RL-ER06 RL-ER07



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**Table 4-19 Waste Management Facility Life-Cycle Responsibility Assignments  
(Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
2706TA	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2706TB	RL-WM04				RL-WM04	RL-TP10	RL-ER06
<b>M-91 Facility</b>	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-TP10	RL-ER06
Low-Level Mixed Waste Stabilization Contract	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-TP10	RL-ER06
Thermal Treatment Contract	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-TP10	RL-ER06
<b>WRAP</b>	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2336W	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2740W	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2620W	RL-WM04				RL-WM04	RL-TP10	RL-ER06
218W5252	RL-WM04				RL-WM04	RL-TP10	RL-ER06
218W5252A	RL-WM04				RL-WM04	RL-TP10	RL-ER06
<b>Solid Waste Storage</b>	RL-WM03				RL-WM03	RL-TP10 RL-WM03	RL-ER06
Central Waste Complex	RL-WM03				RL-WM03	RL-WM03	RL-ER06 RL-ER07
2120WA	RL-WM03				RL-WM03		RL-ER06
2120WB	RL-WM03				RL-WM03		RL-ER06
2401W	RL-WM03				RL-WM03		RL-ER06
2404WA	RL-WM03				RL-WM03		RL-ER06
2404WB	RL-WM03				RL-WM03		RL-ER06
2404WC	RL-WM03				RL-WM03		RL-ER06
2402W	RL-WM03				RL-WM03		RL-ER06
2402WB	RL-WM03				RL-WM03		RL-ER06
2402WC	RL-WM03				RL-WM03		RL-ER06
2402WD	RL-WM03				RL-WM03		RL-ER06
2402WE	RL-WM03				RL-WM03		RL-ER06
2402WF	RL-WM03				RL-WM03		RL-ER06
2402WG	RL-WM03				RL-WM03		RL-ER06
2402WH	RL-WM03				RL-WM03		RL-ER06
2402WI	RL-WM03				RL-WM03		RL-ER06
2402WJ	RL-WM03				RL-WM03		RL-ER06
2402WK	RL-WM03				RL-WM03		RL-ER06
2402WL	RL-WM03				RL-WM03		RL-ER06
2403WA	RL-WM03				RL-WM03		RL-ER06
2403WB	RL-WM03				RL-WM03		RL-ER06
2403WC	RL-WM03				RL-WM03		RL-ER06
2403WD	RL-WM03				RL-WM03		RL-ER06
209E Pad	RL-WM03				RL-WM03		RL-ER06
2420W	RL-WM03				RL-WM03		RL-ER06
Alkalide Metal Waste Storage Modules	RL-WM03				RL-WM03		RL-ER06
Nonradioactive Dangerous Waste Storage Facility	RL-WM03				RL-WM03	RL-WM03	RL-ER06 RL-ER07
2727W	RL-WM03				RL-WM03	RL-TP10	RL-ER06
616	RL-WM03				RL-WM03		RL-ER06
<b>Solid Waste Disposal</b>	RL-WM03				RL-WM03	RL-ER02	RL-ER02
Low-Level Waste Burial Grounds	RL-WM03				RL-WM03	RL-ER02 RL-WM03	RL-ER02 RL-ER07
Mixed Waste Disposal Trenches	RL-WM03				RL-WM03	RL-WM03	RL-ER02 RL-ER07
<b>222-S Laboratory</b>	RL-WM06				RL-WM06	RL-ER05 RL-TP10	RL-ER06 RL-ER07
207SL	RL-WM06				RL-WM06	RL-TP10	RL-ER06
212S/213S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
219S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SA	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SB	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SC	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SD	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SE	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SF	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SG	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SH	RL-WM06				RL-WM06	RL-TP10	RL-ER06
225WB	RL-WM06				RL-WM06	RL-TP10	RL-ER06
2716S	RL-WM06				RL-WM06	RL-TP10	RL-ER06

**Table 4-19 Waste Management Facility Life-Cycle Responsibility Assignments  
(Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
2734S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
272S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
WSCF	RL-WM06				RL-WM06	RL-ER06	RL-ER06 RL-ER07
6265A	RL-WM06				RL-WM06	RL-ER06	RL-ER06
6265	RL-WM06				RL-WM06	RL-ER06	RL-ER06
6266	RL-WM06				RL-WM06	RL-TP10	RL-ER06
6266B	RL-WM06				RL-WM06	RL-TP10	RL-ER06
6266A	RL-WM06				RL-WM06	RL-TP10	RL-ER06
6267	RL-WM06				RL-WM06	RL-TP10	RL-ER06
6268	RL-WM06				RL-WM06	RL-ER06	RL-ER06
6269	RL-WM06				RL-WM06	RL-ER06	RL-ER06
6270	RL-WM06				RL-WM06	RL-ER06	RL-ER06
300 LEF	RL-WM05				RL-WM05	RL-ER03 RL-WM05	RL-ER03
300 Area Treated Effluent Disposal Facility	RL-WM05				RL-WM05	RL-TP13	RL-TP13
310	RL-WM05				RL-WM05	RL-TP13	RL-TP13
310S	RL-WM05				RL-WM05	RL-TP13	RL-TP13
3906	RL-WM05				RL-WM05	RL-TP13	RL-TP13
307 Retention Basins	RL-WM05				RL-WM05	RL-WM05	RL-ER06 RL-ER07
340 Waste Handling Facility	RL-WM05				RL-WM05	RL-ER05 RL-WM05	RL-ER06 RL-ER07
340	RL-WM05				RL-WM05	RL-WM05	RL-ER06
340A	RL-WM05				RL-WM05	RL-WM05	RL-ER06
340B	RL-WM05				RL-WM05	RL-WM05	RL-ER06
342	RL-WM05				RL-WM05	RL-WM05	RL-ER06
342A	RL-WM05				RL-WM05	RL-WM05	RL-ER06
342B	RL-WM05				RL-WM05	RL-WM05	RL-ER06
342C	RL-WM05				RL-WM05	RL-WM05	RL-ER06
3707F	RL-WM05				RL-WM05	RL-WM05	RL-ER06

\* RL PBS Identifier Index:

RL-ER02 - 200 Area Source Remedial Action  
 RL-ER03 - 300 Area Source Remedial Action  
 RL-ER05 - Surveillance & Maintenance  
 RL-ER06 - Decontamination & Decommissioning  
 RL-ER07 - Long Term Surveillance & Maintenance  
 RL-TP03 - PUREX  
 RL-TP10 - Accelerated Deactivation  
 RL-TP13 - Landlord  
 RL-WM03 - Solid Waste Storage & Disposal  
 RL-WM04 - Solid Waste Treatment  
 RL-WM05 - Liquid Effluents  
 RL-WM06 - Analytical Services

**TABLE 4-20 Waste Management Facility Life-Cycle Responsibility Assignments for  
Waste Sites**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
CP Soil Site Operable Units	Active		RL-ER02 RL-ER05	RL-ER02 RL-ER07
200-E-20, 218-E-10 Borrow Pit	Rejected(Proposed)	RL-WM03		
200 ETF, 200 Area Effluent Treatment Facility (ETF), 2025-E	Active	RL-WM05	RL-ER02	RL-ER02
200-E-17, 200 Area Liquid Effluent Retention Facility (LERF)	Active	RL-WM05	RL-ER02	RL-ER02
UPR-200-W-2, UN-200-W-2	Active	RL-WM04	RL-ER02	RL-ER02

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**TABLE 4-20 Waste Management Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
UPR-200-W-98, UN-216-W-6, 221-T at R-19 Waste Line Break, UN-200-W-98	Active	RL-WM04	RL-ER02	RL-ER02
207-SL, 222-S Retention Basin, REDOX Lab Retention Basin, 207-SL Retention Basin	Active	RL-WM06	RL-ER02	RL-ER02
216-T-29, 291-T Sand Filter Sewer, 216-T-29 French Drain	Active	RL-WM04	RL-ER02	RL-ER02
616-WS-1, 616 NDWSF French Drain	Rejected(Proposed)	RL-WM03		
242-A, 241-A Evaporator	Active	RL-WM05	RL-ER02	RL-ER02
207-A-SOUTH, 207-A, 207-A Retention Basin, 207-A-SOUTH Retention Basin, 207-A South	Active	RL-WM05	RL-ER02	RL-ER02
200-W-46, 222-S Laboratory Room 4-E 90-Day Waste Accumulation Area	Active	RL-WM06		
200-W-49, 222-S Laboratory Room 2-D 90-Day Waste Accumulation Area	Active	RL-WM06		
219-S-101, 219-S-TK-101, TK-101 Crib Waste Receiver, 219-S, TK-101 Receiver Tank	Active	RL-WM06	RL-ER02	RL-ER02
219-S-102, 219-S-TK-102, 219-S Storage Tank 102, 219-S Primary Treatment Tank TK-102	Active	RL-WM06	RL-ER02	RL-ER02
219-S-103, 219-S-TK-103, 219-S Storage Tank 103, 219-S Backup Treatment Tank TK-103	Active	RL-WM06	RL-ER02	RL-ER02
222-SD, 222-S Laboratories Storage Pad, 222-SD, 222-S Storage Pad	Active	RL-WM06	RL-ER02	RL-ER02
296-S-13	Active	RL-WM06	RL-ER02	RL-ER02
296-S-16	Active	RL-WM06	RL-ER02	RL-ER02
296-S-21	Active	RL-WM06	RL-ER02	RL-ER02
207-A-NORTH, 207-A, 207-A Retention Basin, 207-A-NORTH Retention Basin, 207-A North	Active	RL-WM05	RL-ER02	RL-ER02
2607-W3	Active	RL-WM04	RL-ER02	RL-ER02
2607-W4, T Plant Septic Tank and Drain Field	Active	RL-WM04	RL-ER02	RL-ER02
2607-W6	Active	RL-WM06	RL-ER02	RL-ER02
6607-5	Active	RL-WM03	RL-ER02	RL-ER02
218-W-6	Active	RL-WM03	RL-ER02	RL-ER02
218-E-10, 200 East Industrial Waste No. 10, Equipment Burial Ground #10	Active	RL-WM03	RL-ER02	RL-ER02
218-E-12B, 200 East Dry Waste No. 12B, 218-E-12B Burial Ground - Trench 94	Active	RL-WM03	RL-ER02	RL-ER02
218-W-3A, Dry Waste No. 003A	Active	RL-WM03	RL-ER02	RL-ER02
218-W-3AE, Industrial Waste No. 3AE, Dry Waste No. 3AE	Active	RL-WM03	RL-ER02	RL-ER02
218-W-3B, (Low-Level Waste Burial Grounds)	Active	RL-WM03	RL-ER02	RL-ER02
218-W-4B, Dry Waste No. 04B	Active	RL-WM03	RL-ER02	RL-ER02
218-W-4C, Dry Waste No. 004C	Active	RL-WM03	RL-ER02	RL-ER02
218-W-5, Dry Waste Burial Ground, Low-Level Radioactive Mixed Waste Burial Grounds	Active	RL-WM03	RL-ER02	RL-ER02
UPR-200-E-61, Radioactive Contamination from Railroad Burial Cars, UN-216-E-61, UN-200-E-61	Rejected(Proposed)	RL-WM03		
200-W-20, 2706-T Railroad Pit Sump, T Plant Complex	Active	RL-WM04	RL-ER02	RL-ER02
200-W-36,TK-SQ-143, EP 211-143	Active	RL-WM04	RL-ER02	RL-ER02
200-W-40, 292-T, Emission Control Lab, Stack Gas Sampling Building	Active	RL-WM04	RL-ER02	RL-ER02
200-W-45, 291-T Sand Filter, T Plant Stack Sand Filter	Active	RL-WM04	RL-ER02	RL-ER02
200-W-47, 211-T Storage Pad 90-Day Waste Accumulation Area	Active	RL-WM04		
200-W-50, 2706-T 90-Day Waste Accumulation Area	Active	RL-WM04		
221-T-11-R, 221-T-TK-11-R, Tank 11-R 221-T System, T Plant Complex	Active	RL-WM04	RL-ER02	RL-ER02
221-T-15-1, 221-T-TK-15-1, Tank 15-1 221-T System, T Plant Complex	Active	RL-WM04	RL-ER02	RL-ER02
221-T-5-6, 221-T-TK-5-6, Tank 5-6 221-T System, T Plant Complex	Active	RL-WM04	RL-ER02	RL-ER02
221-T-5-7, 221-T-TK-5-7, Tank 5-7 221-T System, T Plant Complex	Active	RL-WM04	RL-ER02	RL-ER02
221-T-5-9, 221-T-TK-5-9, Tank 5-9 221-T System, T Plant Complex	Active	RL-WM04	RL-ER02	RL-ER02
221-T-6-1, 221-T-TK-6-1, Tank 6-1 221-T System, T Plant Complex	Active	RL-WM04	RL-ER02	RL-ER02
200-E-8, 200 East Trench 94 Diesel Spill	Active	RL-WM03		
UPR-200-W-65, Contamination in the T-Plant Railroad Cut, UN-200-W-65	Active	RL-WM04	RL-ER02	RL-ER02
UPR-200-W-73, Contaminated Railroad Track at 221-T, UN-200-W-73	Active	RL-WM04	RL-ER02	RL-ER02
UPR-200-W-85, Radioactive Spill from Multipurpose Transfer Box, UN-216-W-85, UN-200-W-85	Active	RL-WM04	RL-ER02	RL-ER02
UPR-200-W-87, UN-216-W-87, Radioactive Spill from Filter Housing, UN-200-W-87	Active	RL-WM06	RL-ER02	RL-ER02
RMWSF, Radioactive Mixed Waste Storage Facility, 2401W, 2401WB, -WC, -WD, -WE, -WF, -WG, -WH, -WI, -WJ, -WK, -WL, Hanford Central Waste Complex	Active	RL-WM03		RL-ER02

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**TABLE 4-20 Waste Management Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
RMWSF, Radioactive Mixed Waste Storage Facility, 2401W, 2402WB, -WC, -WD, -WE, -WF, -WG, -WH, -WI, -WJ, -WK, -WL, Hanford Central Waste Complex, 2403WA, -WB, -WC, -WD, 2404WA, -WB, -WC	Active	RL-WM03	RL-ER02	RL-ER02
WRAP, Waste Receiving and Processing Facility	Active	RL-WM04	RL-ER02	RL-ER02
<b>CC Soil Site Operable Units</b>	Active		RL-ER02	RL-ER02 RL-ER07
200-A TEDF, 200 Area Treated Effluent Disposal Facility, TEDF, 600-145, 216-E-43A and 216-E-43B	Active	RL-WM05	RL-ER02	RL-ER02
6607-16, Septic Tank, Project C-018H, ECN-C018H-040	Active	RL-WM05	RL-ER02	RL-ER02
600-215, 6265A 90-Day Waste Accumulation Area	Active	RL-WM06		
616, 616 Building Non-Radioactive Dangerous Waste Storage Facility, 616 Nonradioactive Dangerous Waste Storage	Active	RL-WM03	RL-ER02	RL-ER02
6607-9, Septic Tank 6607-9 Large On-Site Sewage System, Project W-011H	Active	RL-WM06	RL-ER02	RL-ER02
600-211, State Approved Land Disposal Site, SALDS, 616A	Active	RL-WM05	RL-ER02	RL-ER02
<b>S600 Soil Site Operable Units</b>	Active		RL-ER03 RL-ER05	RL-ER03 RL-ER07
300 RLWS, 300 Area RLWS, 300 Area Radioactive Liquid Waste Sewer	Active	RL-WM05	RL-ER03	RL-ER03
300 RRLWS, 300 Area Retired RLWS, 300 Area Retired Radioactive Liquid Waste Sewer System, Crib Waste System, Contaminated Sewer, Intermediate Level Radioactive Liquid Waste System	Active	RL-WM05	RL-ER03	RL-ER03
300-112, 340 P-3 Pump Pit, Retention Process Sewer Pump Pit #3 French Drain, Miscellaneous Stream #428	Rejected	RL-WM05		
300-113, 340 Building Steam Condensate/ Water Heater Overflow, Miscellaneous Stream #341	Rejected	RL-WM05		
300-114, 340A Building Steam Condensate, Miscellaneous Stream #427	Rejected	RL-WM05		
300-115, 340B Building Backflow Preventer Emergency Drain, Miscellaneous Stream #426	Rejected	RL-WM05		
300-15, 300 Area Process Sewer System	Active	RL-WM05	RL-ER03	RL-ER03
300-175, 3714 Building Steam Condensate, Miscellaneous Stream #434	Active	RL-WM05	RL-ER03	RL-ER03
300-214, 300 Area Retention Process Sewer	Active	RL-WM05	RL-ER03	RL-ER03
300-34, 300 Area Process Sewer Leak (found during Project L-070 excavation at manhole PS-87)	Active	RL-WM05	RL-ER03	RL-ER03
300-40, Corrosion of Vitrified Clay Sewer Pipe	Active	RL-WM05	RL-ER03	RL-ER03
307 RB, 307 Retention Basins	Active	RL-WM05	RL-ER03	RL-ER03
316-3, 307 Disposal Trenches, Process Water Trenches	Active	RL-WM05	RL-ER03	RL-ER03
340 CHWSA, 340 Complex HWSA, 340 Complex Hazardous Waste Storage Area	Rejected	RL-WM05	RL-ER03	RL-ER03
340 COMPLEX, 340 Radioactive Liquid Waste Handling Facility	Active	RL-WM05		
600-117, 300 Area Treated Effluent Disposal Facility (TEDF), 310 Building	Active	RL-WM05	RL-ER03	RL-ER03
600-210, 300 Area TEDF Outfall	Rejected	RL-WM05		
UPR-300-1, 316-1, 316-1A, 307-340 Waste Line Leak, UN-300-1	Active	RL-WM05	RL-ER03	RL-ER03
UPR-300-11, Underground Radioactive Liquid Line Leak, UN-300-11	Active	RL-WM05	RL-ER03	RL-ER03
UPR-300-2, Releases at the 340 Facility, UN-300-2, UN-316-2	Active	RL-WM05	RL-ER03	RL-ER03
UPR-300-41, 300 Area #340 Building Phosphoric Acid Spill, UN-300-41	Closed Out	RL-WM05		RL-ER03

The 'Rejected' and 'Completed' waste sites are part of the Project Hanford Management Contract (PHMC), but require no additional work from the PHMC team. When they are removed from the contract via direction from the RL Contracting Officer representative, they will be removed from this specification.

\* RL PBS Identifier Index:

RL-ER02 - 200 Area Source Remedial Action  
 RL-ER03 - 300 Area Source Remedial Action  
 RL-ER05 - Surveillance & Maintenance  
 RL-ER07 - Long Term Surveillance & Maintenance  
 RL-WM03 - Solid Waste Storage & Disposal  
 RL-WM04 - Solid Waste Treatment  
 RL-WM05 - Liquid Effluents  
 RL-WM06 - Analytical Services

#### **4.2.2.e Performance Measures**

Performance measures are used to monitor both mission and corporate management. In this document, our focus is on mission management. There are two types of mission-focused performance measures. First, there are performance measures that monitor the progress made on activities that must be completed to enable key steps in waste/material cleanup to occur. These activities may involve such things as facility and system upgrades, development of waste treatment approaches, obtaining regulatory permits, and the negotiation of waste disposal contracts and turnover criteria for unneeded facilities.

Second, there are performance measures that track the progress made in the processing of wastes and other materials (including facilities). These "process" measures monitor changes in waste/material form, storage method, and location. These measures are important because they are directly linked to two key Success Indicators - the reduction in the level of active management required for the inventory and the reduction in the hazard posed by the waste/material. Process measures will monitor the waste/material during each major processing step as the waste material is received from other programs or offsite generators and transitions to the configuration described by the appropriate endpoint target or performance objective. For the Solid Waste project, the endpoint targets for TRU wastes, LLW, and LLMW are presented in the Hanford Strategic Plan and are included in the *Facility Life-Cycle Requirements Section* for the project.

For other waste materials that do not have explicit endpoint targets, performance measures will monitor the processing and movement of wastes that are conducted to achieve appropriate performance objectives (as presented in *Multi-Year Work Plans*).

#### **4.2.2.1 Solid Waste Storage & Disposal**

##### **4.2.2.1.1 Project Description Summary**

The Solid Waste Storage and Disposal Project provides centralized facilities for the interim storage of solid radioactive mixed low-level waste (MLLW) and transuranic (TRU) wastes and the disposal of solid radioactive MLLW and low-level waste (LLW) for onsite and offsite generators. This supports other Hanford projects (River Protection Project, Spent Nuclear Fuels, Facility Stabilization, Liquid Effluents, Analytical Services and Environmental Restoration) and complex wide projects with the required services in support of their missions and end points. This includes the management, operations, surveillance, monitoring, and maintenance of facility buildings, burial grounds, and current waste inventories. Additionally this project provides inventory reductions through the final disposal of LLW and LDR compliant MLLW. The Solid Waste Storage and Disposal mission is to responsibly manage current and future solid waste streams in a safe, cost-effective and environmentally compliant manner.

##### **4.2.2.1.2 Life-Cycle Material and Waste Flow**

The solid waste life cycle projections are based on the Solid Waste Integrated Forecast

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(SWIFT) Report: FY1999 to FY2046, 99.0, revised on 11/30/1998.

**Table 4-21 Solid Waste Storage & Disposal Waste/Material Flow (In)**

Major Facility	Category	Period	Value	Units
Solid Waste Storage	CH LLMW I	2000 - 2046	35500	cubic meters
	CH LLMW III	2000 - 2035	3520	cubic meters
	CH TRU	2000 - 2032	5780	cubic meters
	CH TRUM	2000 - 2037	2580	cubic meters
	RH LLMW I	2000 - 2032	2730	cubic meters
	RH LLMW III	2000 - 2031	27900	cubic meters
	RH TRU	2000 - 2033	216.0	cubic meters
	RH TRUM	2000 - 2033	1340	cubic meters
Solid Waste Disposal	CH LLMW I	2000 - 2046	40800	cubic meters
	CH LLMW III	2000 - 2007	63.1	cubic meters
	CH LLW I	2000 - 2046	122000	cubic meters
	CH LLW III	2000 - 2046	5490	cubic meters
	RH LLMW I	2000 - 2035	31800	cubic meters
	RH LLW GTCIII	2017 - 2021	6.42	cubic meters
	RH LLW I	2001 - 2016	14.5	cubic meters
	RH LLW III	2000 - 2046	287.0	cubic meters

**Table 4-22 Solid Waste Storage & Disposal Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
Solid Waste Storage	CH LLMW I	2000 - 2046	26500	cubic meters
	CH TRUM	2000 - 2032	20400	cubic meters
	RH LLMW I	2000 - 2035	30700	cubic meters
	RH TRUM	2000 - 2032	1760	cubic meters
	Spent Nuclear Fuel (SNF)	2001 - 2013	0.04	MTHM
Solid Waste Disposal	CH LLMW I	2000 - 2046	12.0	cubic meters
	CH LLW I	2000 - 2046	180.0	cubic meters
	Waste Water	2000 - 2030	149000	cubic meters

#### 4.2.2.1.3 Facility Life-Cycle Requirements

- Requirements

- Material currently managed as TRU located in the 200 West Area Low-Level Burial Grounds, consisting of heavy metal from research activities mostly as Test Reactor and Isotope Production General Atomics (TRIGA) waste, will be transferred to the 200 Area ISA upon removal from the burial grounds.
  - Solid wastes shall be dispositioned consistent with national policies for management of transuranic, low level, low level mixed and hazardous wastes.

- Planning Assumptions

- Remediation levels and disposal standards that are consistent with long term uses for the central plateau shall be established by either the Resource Conservation and Recovery Act of 1976 (RCRA), CERCLA, or NEPA.
  - Central Plateau high cost surplus facilities shall be transitioned to a low cost, stable, deactivated condition
  - Nuclear materials shall be consolidated in the Central Plateau for interim storage pending ultimate disposition.

- Central Plateau shall be used for the disposal of radioactive waste materials that remain onsite.
- Low Level Waste Burial Grounds shall be operated within the approved safety envelope
- Low Level Waste Burial Ground shall be surveilled and maintained within the approved safety envelope
- Unirradiated uranium shall be dispositioned offsite or disposed onsite as low level waste.
- Onsite low level waste shall be dispositioned in the Central Plateau.
- Offsite low level mixed waste shall be dispositioned in the Central Plateau.
- Offsite low level waste shall be dispositioned in the Central Plateau.
- U.S. Navy reactor compartments shall be dispositioned in the Central Plateau.
- 616 building shall be maintained in the cold standby mode within the approved safety envelope
- Central Plateau facilities shall be maintained within the approved safety envelope
- Low level mixed waste from onsite and offsite sources shall be received in the 200 area
- Low level waste from onsite and offsite sources shall be received in the 200 area

#### **4.2.2.1.4 Project Safety Authorization Basis/NEPA and Permits**

The Solid Waste Subproject has an S/RID in place (Hamilton 1995). This S/RID is being revised to include the Liquid Waste and Analytical Services portions of the Waste Management Project.

The Authorization Basis for the Solid Waste Subproject is contained in the following:

- WHC-SD-WM-ISB-007, Central Waste Complex - Interim Safety Basis (Cain 1995)
- WHC-SD-WM-SAR-019, Nonradioactive Dangerous Waste Storage Facility (Bodily 1993)
- HNF-SD-W026-SAR-002, Final Safety Analysis Report for Waste Receiving and Processing Facility (Weidert 1997)
- WHC-SD-CP-SAR-007, T Plant Safety Analysis Report (Johnson 1993)
- WHC-SD-WM-ISB-006, Interim Safety Basis for Solid Waste Facilities (T Plant) (Meyer 1997)
- WHC-SD-WM-SAR-058, Final Safety Analysis for Contact-Handled TRU Waste Drums In-Situ Inspection and Vented Drum Retrieval (Joyce 1994)
- WHC-SD-WM-ISB-002, Solid Waste Burial Grounds Interim Safety Basis (Bendixsen 1995).

#### **4.2.2.1.5 Tri-Party Agreement Requirements**

- TPA.M.91.0 Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of all Hanford Site TRU/TRUM, MLLW, and GTC3. [Due Date: TBD]
- TPA.M.91.1 Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing prior to disposal of all Hanford Site Post 1970 TRU/TRUM [Due Date: TBD But No Later Than 12/31/2000]
- TPA.M.91.13 Initiate Disposal of CH-MLLW [Due Date: 6/30/2001]

#### 4.2.2.1.6 Interfaces

**TABLE 4-23 Solid Waste Storage & Disposal Interfaces**

Project Title	Project Number	Interface
Pearl Harbor Naval Shipyard	EXTERNAL	Provides PEARL HARBOR, CH-LLMW-I
FERMI National Accelerator Laboratory	EXTERNAL	Provides FERMI, CH-LLW-I
Bates Accelerator - Massachusetts	EXTERNAL	Provides MIT BATES, CH-LLW-I
Paducah Energy Systems	EXTERNAL	Provides PADUCAH ES, CH-LLW-III
Ames Laboratory	EXTERNAL	Provides AMES, CH-LLW-I
Rockwell - Canoga Park	EXTERNAL	Provides RKW CANOGA, CH-LLW-I
Knolls Atomic Power - Shipyards	EXTERNAL	Provides KAPL SHIPYDS, CH-LLW-I Provides KAPL SHIPYDS, CH-LLW-III
Brookhaven National Laboratory	EXTERNAL	Provides BRKHVN, CH-LLW-I Provides BRKHVN, RH-LLW-I
University of California - Davis	EXTERNAL	Provides B LEHR DAV, CH-LLW-I
Lawrence Berkeley Laboratory	EXTERNAL	Provides LBL, CH-LLW-I
Bettis Atomic Power - Laboratory	EXTERNAL	Provides BAPL, CH LLMW I Provides BAPL, CH-LLW-I Provides BAPL, CH-LLW-III
Stanford Linear Accelerator Center	EXTERNAL	Provides STANFORD, CH-LLW-I
Knolls Atomic Power - Laboratory	EXTERNAL	Provides KAPL, CH-LLMW-I
Argonne National Laboratory - East	EXTERNAL	Provides ANL E, CH-LLW-I Provides ANL E, CH-LLW-III Provides ANL E, RH-LLW-III
Puget Sound Naval Shipyard	EXTERNAL	Provides PUGET SOUND, CH-LLMW-I
Rocky Flats	EXTERNAL	Provides ROCKY FLATS, CH-LLMW-III
Princeton Plasma Physics Laboratory	EXTERNAL	Provides PRINCETON, CH-LLW-I
Bettis Atomic Power - Shipyards	EXTERNAL	Provides BAPL SHIPYDS, CH-LLW-I
University of California - Los Angeles	EXTERNAL	Provides UCLA LLW Shipment
Portsmouth Energy Systems	EXTERNAL	Provides PORTSMOUTH ES, CH-LLW-I Provides PORTSMOUTH NS, CH LLMW I
Battelle Columbus Laboratories	EXTERNAL	Provides BAT CLBS LAB, CH-LLMW-I Provides BAT CLBS LAB, CH-LLW-I Provides BAT CLBS LAB, CH-LLW-III
United Kingdom	EXTERNAL	Provides UO3 Depleted Uranium Receipts
PARKS TOWNSHIP	EXTERNAL	Provides PARKS TOWNSHIP, CH-LLW-I
Hanford Legacy	EXTERNAL	Provides Legacy CH LLW I inventory in LLBG Provides Legacy TRIGA Fuel
Tank Farm Operations	RL-TW03	Provides DST RET, CH LLMW III Provides TF OPER, CH-LLMW-I Provides TF OPER, CH-LLMW-III Provides TF OPER, CH-LLW-I Provides TF OPER, RH-LLMW-I Provides TF OPER, RH-LLMW-III Provides TF VADOSE, CH-LLMW-I Provides TWP W314, CH-LLMW-I Provides TWP W314, CH-LLMW-III Provides TWP W314, CH-LLW-I Provides TWP W314, RH-LLMW-I Provides TWP W314, RH-LLMW-III
Retrieval	RL-TW04	Provides DST RET, CH-LLMW-I Provides DST RET, RH-LLMW-III Provides SST LLE, CH-TRUM Provides SST LLE, RH-LLMW-III Provides SST LLE, RH-TRUM Provides SST RET, CH-LLMW-I Provides SST RET, CH-LLMW-III Provides SST RET, CH-LLW-I Provides SST RET, RH-LLMW-I Provides SST RET, RH-LLMW-III Provides TWP W211, CH-LLMW-I Provides TWP W211, CH-LLMW-III Provides TWP W211, RH-LLMW-III Provides TWP W211, RH-TRUM



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**TABLE 4-23 Solid Waste Storage & Disposal Interfaces (Continued)**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Privatization Phase I	RL-TW06	Provides BNFL VIT, CH-LLMW-I Provides BNFL VIT, CH-LLMW-III Provides BNFL VIT, CH-LLW-I Provides BNFL VIT, CH-LLW-III Provides BNFL VIT, RH-LLMW-I Provides BNFL VIT, RH-LLW-III
Privatization Phase II	RL-TW07	Provides BNFL VIT, CH-LLMW-I Provides BNFL VIT, CH-LLMW-III Provides BNFL VIT, CH-LLW-I Provides BNFL VIT, CH-LLW-III Provides BNFL VIT, RH-LLMW-I Provides BNFL VIT, RH-LLW-III Provides HLVP, CH-LLMW-I Provides HLVP, CH-LLMW-III Provides HLVP, CH-LLW-I Provides HLVP, CH-LLW-III Provides HLVP, CH-TRUM Provides HLVP, RH-LLW-III Provides HLVP, RH-TRUM
Solid Waste Treatment	RL-WM04	Provides M-33/M-91, CH-LLW-III Provides M-91 to Disposal, RH LLMW I Provides T Plant Canyon Deactivation, CH-LLW-I Provides T Plant Canyon Deactivation, CH-TRUM Provides T PLANT, CH-LLMW-I Provides T PLANT, CH-LLW-I Provides T PLANT, RH-LLMW-I Provides T PLANT, RH-LLW-I Provides WRAP, CH LLW I Provides WRAP, CH-LLMW-I Provides WRAP, CH-TRU Provides WRAP, CH-TRUM Receives CH LLW I for Compliance Verification Receives Retrieved TRIGA Fuel Receives Retrieved TRIGA Fuel Receives Storage to M-91, CH TRUM Receives Storage to M-91, RH LLMW I Receives Storage to M-91, RH TRUM Receives Storage to WRAP, CH TRUM
Liquid Effluents	RL-WM05	Provides 300 TEDF CH LLMW I Provides 300 TEDF CH LLW I Provides ETF, CH-LLMW-I Provides ETF, CH-LLW-I Receives 200 East Mixed Waste Disposal Trench Leachate Receives Mixed Waste Disposal Trench Leachate
Analytical Services	RL-WM06	Provides 327 Facility, CH LLMW I Provides 327 Facility, CH LLW I Provides 327 Facility, CH-LLMW-III Provides 327 Facility, CH-LLW-III Provides 327 Facility, CH-TRU Provides ANALYT LAB, CH-LLMW-I Provides ANALYT LAB, CH-LLMW-III Provides ANALYT LAB, CH-LLW-I Provides ANALYT LAB, CH-LLW-III Provides WSCF, CH-LLMW-I Provides WSCF, CH-LLW-I Receives Analytical Laboratory Samples from 200-SWM Receives In-Field Laboratory Samples from 200-SWM

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**TABLE 4-23 Solid Waste Storage & Disposal Interfaces (Continued)**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Spent Nuclear Fuel Project	RL-WM01	Provides K Basin Deactivation, CH LLMW I Provides K Basin Deactivation, CH TRU Provides K Basin Deactivation, CH-LLW-I Provides K Basin Deactivation, RH TRU Provides K Basins, CH-LLW-I Provides K OPER, CH-LLMW-I Provides K OPER, CH-LLW-III Provides K OPER, RH-TRU Provides K OPER, RH-TRUM Provides K Project, CH LLW I Provides K PROJECT, CH-TRU
WESF	RL-TP02	Provides WESF, CH LLMW I Provides WESF, CH LLW I Provides WESF, RH LLMW III Provides WESF, RH-LLW-GTCIII Provides WESF, RH-LLW-III
300 Area/SNM	RL-TP04	Provides FUEL TRANS, CH-LLW-I
PFP	RL-TP05	Provides PFP, CH-LLMW-I Provides PFP, CH-LLW-I Provides PFP, CH-LLW-III Provides PFP, CH-TRU Provides PFP, CH-TRUM
Accelerated Deactivation	RL-TP10	Provides T Plant Canyon Deactivation, CH-LLW-I Provides T Plant Canyon Deactivation, CH-TRUM
324/327 Facility Transition	RL-TP08	Provides 324 Facility, CH LLMW III Provides 324 Facility, CH LLW I Provides 324 Facility, CH LLW III Provides 324 Facility, CH-TRU Provides 324 Facility, CH-TRUM Provides 324 Facility, RH-TRU Provides 324 Facility, RH-TRUM
Landlord	RL-TP13	Provides DYNACORP (MESS), CH LLW I
100 Area Source Remedial Action	RL-ER01	Provides BHI SURPLS FAC, CH LLW I Provides BHI SURPLS FAC, CH-LLMW-I Provides Received CH-TRU
200 Area Source Remedial Action	RL-ER02	Provides BHI SURPLS FAC, CH-TRUM Provides BHI SURPLUS FAC, CH-TRU Provides Deactivated Non-Mixed Waste Burial Grounds Receives Safe & Compliant Excess Non-Mixed Waste Burial Grounds
PNNL Waste Management	RL-ST01	Provides PNNL, CH-LLMW-III Provides PNNL, CH-TRU Provides PNNL, RH-LLMW-III
Advanced Reactors Transition	RL-TP11	Provides PRTR, CH-LLMW-I Provides PRTR, CH-LLW-I Provides SODIUM TST, CH-LLMW-III
Low-Level Mixed Waste Stabilization Contract	EXTERNAL	Provides Stabilized Contact Handled Low Level Mixed Waste Provides STP to Disposal, CH LLMW I Provides STP Treated CH LLMW Receives Storage to STP, CH LLMW I
Thermal Treatment Contract	EXTERNAL	Provides Commercially Treated LLMW Provides CTT Treated to Disposal, CH LLMW I Receives Storage to CTT, CH LLMW I

#### 4.2.2.1.7 Requirements References

- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"

- HNF-EP-0063, Hanford Site Solid Waste Acceptance Criteria"
- WHC-EP-0063, Hanford Site Solid Waste Acceptance Criteria"

#### **4.2.2.2 Solid Waste Treatment**

##### **4.2.2.2.1 Project Description Summary**

The Solid Waste Treatment project provides onsite and commercial offsite mixed waste treatment, waste verification and repackaging, and decontamination services to customers throughout the Hanford Site. It also provides retrieval of stored transuranic (TRU) waste and processing of transuranic waste in preparation of shipment offsite for disposal at the Waste Isolation Pilot Plant (WIPP). This work supports agreements with the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement, TPA) stakeholders and addresses specific milestones (M-19-00, M-19-01, M-91-00, M-91-01, M-91-03, M-91-04, M-91-05, M-91-06, M-91-07, M-91-08, M-91-11, M-91-12, M-91-13, M-91-14, and M-91-15) for initiating and completing treatment for a variety of low-level waste (LLW), mixed low-level waste (MLLW), transuranic (TRU), and transuranic mixed (TRUM) wastes. Wastes are treated for disposal purposes, typically driven by Resource Conservation and Recovery Act (RCRA) Land Disposal Restrictions (LDR) for MLLW or by WIPP waste acceptance criteria for TRU and TRUM. This work is accomplished through existing facilities on the Hanford Site such as the T Plant complex, the Waste Receiving and Processing (WRAP) Facility, and through offsite commercial treatment contracts. Capital projects associated with mixed waste treatment activities and TRU waste retrieval are also addressed in this project baseline summary.

##### **WASTE RECEIVING AND PROCESSING (WRAP) FACILITY:**

The WRAP facility provides LLW and MLLW verification sampling capability for waste already in storage as well as newly generated waste. The WRAP facility provides verification or characterization required by DOE Order 5820.2/435.1, Washington Administrative Code 173-303 and 40 Code of Federal Regulations 264 for the Low-Level Burial Grounds and RCRA-compliant storage facilities to be able to accept solid waste (drums and boxes) for storage or disposal. Without WRAP operations, stockpiling of solid radioactive wastes could occur across the Hanford site.

WRAP also provides characterization and treatment for TRU/TRUM waste in above ground and retrievable underground storage at Hanford. The transuranic fraction will be prepared for transport to the WIPP for disposal, while the non-transuranic fraction will be segregated for onsite disposal in the Low Level Burial Grounds or for further processing. Many of the suspect transuranic containers have been underground longer than their design lifetime of 20 years.

##### **T PLANT COMPLEX**

The T Plant Complex provides mixed waste treatment, waste verification and repackaging, and decontamination services to customers throughout the Hanford Site. Work is performed at the T Plant Complex which has been providing decontamination services to the site since 1957. The T Plant Complex is divided into two sub-complexes, the 221-T canyon facility and the 2706-T sub-complex, which also includes the 214-T chemical storage building. The entire complex is under RCRA interim status as a Treatment and Storage unit. Each of the two sub-complexes has its own unique characteristics that allow for a variety of services to be provided to Hanford

Site customers.

The 221-T canyon was originally constructed in 1943-1944 to extract plutonium from irradiated reactor fuel. It began a mission as a high-dose decontamination facility in 1957. Throughout the years various pieces of large contaminated equipment have been stored in the canyon. Spent nuclear fuel from the decommissioned Shippingport reactor is also stored under water in the canyon. Processing in the canyon also includes items contaminated with alpha-bearing radionuclides. Currently, work in the 221-T canyon is limited to canyon clean-out activities. Planned activities include storage of sludge from K Basin cleanout, and may include mixed waste treatment of remote-handled or alpha contaminated waste.

The 2706-T Complex began work in 1959 as a low-dose decontamination facility with specific emphasis on large rolling stock equipment. Since then, it has also assumed the mission of verification of LLW and MLLW, treatment of MLLW, including low-dose alpha-bearing MLLW, to meet Land Disposal Restrictions (LDR), and TRU/TRUM waste head gas sampling. The facility was expanded in 1992, and again in 1998, to accommodate the larger demand for its expanded waste treatment services.

Operation of the T Plant Complex maintains the overall objective of providing decontamination services of high-dose rate waste and contaminated equipment to meet applicable standards for disposal, storage, re-use, or free release. Low-dose rate waste and contaminated equipment is also managed for repair and return to service and supporting site goals in pollution prevention, recycling, waste reduction, and mixed waste treatment. Safe storage of high-dose contaminated equipment and spent nuclear fuel are also provided.

#### **MIXED WASTE TREATMENT PROGRAM**

The Mixed Waste Treatment Program provides for the RCRA and Toxic Substances Control Act (TSCA) required treatment and disposal of several categories of mixed waste. The mixed waste covered under this project includes MLLW to be generated in the future as well as MLLW currently stored on the Hanford Site. Treatment for these wastes can typically be either stabilization treatment or thermal treatment with commercial contracts currently in place to perform some of this work. The treatment program is governed by TPA milestones M-19 and M-91, which provide for utilization of government owned and commercial treatment facilities. The mixed waste treatment program satisfies TPA interim milestones M-19-00, M-19-01, and M-91-12.

#### **TRU WASTE PROGRAM**

The TRU Waste Program provides for activities associated with preparing TRU waste for shipment to WIPP. These include obtaining WIPP certification, and characterizing TRU and suspect TRU waste drums. Characterization may include development of acceptable knowledge information, real-time radiography, non-destructive assay, visual examination, head-gas sampling, RCRA sampling, and repackaging if necessary.

#### **PHASE I TRU RETRIEVAL**

The Phase I TRU Retrieval Program provides for the activities associated with retrieval of contact handled, suspect transuranic waste from aboveground or underground storage in the Solid Waste Burial Grounds. A phased approach to retrieval has been selected and this project addresses Phase I. The waste has been buried in containers that were not intended to be in the ground for more than twenty years. Many of these containers have begun exceeding this twenty-year limit and will continue to deteriorate the longer they remain underground. The

Record of Decision for the Hanford Defense Waste - Environmental Impact Statement states that the post 1970 transuranic waste must be retrieved. Retrieval of waste is governed by the M-91 set of TPA milestones (specifically M-91-04 and M-91-07).

#### CAPITAL PROJECT W-156

Capital Project W-156 provides for the activities associated with the design, construction, startup, and operation of a facility that will be used to retrieve remote handled transuranic waste from the 218-W-4B Alpha Caissons. The Record of Decision for the Hanford Defense Waste-Environmental Impact Statement states that the post 1970 transuranic waste must be retrieved. Retrieval of waste is governed by the M-91 set of TPA milestones.

#### CAPITAL PROJECT W-221 (Phase II)

Capital Project W-221 provides for the activities associated with the design, construction, startup, and operation of a facility that will be used to retrieve contact handled and remote handled transuranic waste from underground storage trenches at the Hanford site. A phased approach to retrieval has been selected and this project addresses Phase II. The waste has been buried in containers that were not intended to be in the ground for more than twenty years.

Many of these containers have begun exceeding this twenty-year limit and will continue to deteriorate the longer they remain underground. The Record of Decision for the Hanford Defense Waste-Environmental Impact Statement states that the post 1970 transuranic waste must be retrieved. Retrieval of waste is governed by the M-91 set of TPA milestones.

#### CAPITAL PROJECT/TREATMENT CONTRACT - M-91 FACILITY

Capital Project/Treatment Contract - M-91 Facility provides for the activities associated with the design, construction, startup, and operation of a facility(ies) or providing for a contract to treat remote-handled (RH) and large box MLLW and TRU/TRUM waste that is remote handled or requires other special processing. These treatment activities are in support of the M-91 set of TPA milestones.

#### 4.2.2.2.2 Life-Cycle Material and Waste Flow

The life cycle projections are based on treatment of the quantities of solid waste forecasted in the Solid Waste Integrated Forecast (SWIFT) Report: FY1999 to FY2046, 99.0, revised on 11/30/1998.

**Table 4-24 Solid Waste Treatment Waste/Material Flow (In)**

Major Facility	Category	Period	Value	Units
T-Plant Canyon Facility	Spent Nuclear Fuel (SNF)	2004 - 2005	612.0	cubic meters
M-91 Facility	CH TRUM	2000 - 2032	8320	cubic meters
	RH LLMW I	2000 - 2035	3210	cubic meters
	RH TRUM	2000 - 2032	1760	cubic meters
	Spent Nuclear Fuel (SNF)	2001 - 2013	0.04	MTHM
WRAP	CH LLW I	2000 - 2046	180.0	cubic meters
	CH TRUM	2000 - 2032	12000	cubic meters

**Table 4-25 Solid Waste Treatment Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
T-Plant Canyon Facility	CH LLMW I	2000 - 2027	71.9	cubic meters
	CH LLW I	2000 - 2027	1350	cubic meters
	CH TRUM	2007 - 2009	39.8	cubic meters
	HAZ	2000 - 2027	98.3	cubic meters

**Table 4-25 Solid Waste Treatment Waste/Material Flow (Out) (Continued)**

Major Facility	Category	Period	Value	Units
	HLW	2000 - 2018	1890	cubic meters
	RH LLMW I	2000 - 2027	7.19	cubic meters
	RH LLW I	2001 - 2004	2.05	cubic meters
	Spent Nuclear Fuel (SNF)	2002 - 2002	15.8	MTHM
	Treated Liquid Effluent	2000 - 2010	499.0	cubic meters
M-91 Facility	RH LLMW I	2000 - 2035	4300	cubic meters
	RH TRUM	2000 - 2033	996.0	cubic meters
	Spent Nuclear Fuel (SNF)	2001 - 2013	0.04	MTHM
WRAP	CH LLMW I	2000 - 2032	33.1	cubic meters
	CH LLW I	2000 - 2032	1400	cubic meters
	CH TRUM	2000 - 2033	16800	cubic meters

#### 4.2.2.2.3 Facility Life-Cycle Requirements

- Requirements

- Facilities discharging to the 200 Area TEF shall implement Best Available Technology (BAT)/All Known, Available, and Reasonable Treatment (AKART). The generator shall provide the information required by WAC 173-240, Submission of Plans and Reports for Construction of Waste Water Facilities.
- Solid waste shall be treated to convert the waste to an acceptable form for final disposition.
- Container contents of newly generated waste shall be inspected to verify waste contents.
- (b)(3) Mixed transuranic waste shall be treated, where feasible and practical, to destroy the hazardous waste component.
- Central Plateau gaseous effluent releases shall be monitored
- The TRU and transuranic mixed (TRUM) waste processed shall meet transuranic package transporter (TRUPACT) II shipping requirements and the WIPP WAC for disposal at WIPP.
- Complete Phase I for Post 1970 CH TRU/TRUM Retrieval. [Due Date: 9/30/2004]
- Provide for treatment of radioactive, hazardous, sanitary, and polychlorinated biphenyl waste, or combinations thereof, either through procurement of offsite treatment services (preferred), re-use of existing facilities (second option), or construction of facilities. Construction of new government-owned treatment facilities is not desired. Treatment includes stabilization, thermal treatment, separation of waste fractions, and final waste form processing.
- Integrate and perform characterization activities required for treatment, Central Waste Complex acceptance, and other solid waste activities.
- Utilize the T-Plant complex as a central decontamination facility on the Hanford Site. This facility is permitted by the Washington Department of Ecology (Ecology) as a RCRA treatment and storage unit.
- Separate all other wastes for appropriate disposal (e.g., retrieval, segregating, and repackaging Transuranic [TRU] wastes for the Waste Isolation Pilot Plant [WIPP]); remove hazardous constituents or liquid from solid waste; and separate Land Disposal Restricted (LDR) waste from liquid effluents.
- Contractor waste certification shall be in accordance with DOE/WIPP-069, Waste Acceptance Criteria for Waste Isolation Pilot Plant.

- Planning Assumptions

- Transitioned facilities shall be decontaminated and decommissioned sufficiently to enable removal or closure through entombment
- Packaged Hanford TRU waste shall be shipped to Waste Isolation Pilot Plant.
- Central Plateau facilities shall be maintained within the approved safety envelope
- T Plant shall be surveilled and maintained within the approved safety envelope
- PWR fuel shall be safely stored in T Plant
- The WRAP facility shall be operated and maintained within the approved safety envelope.

#### **4.2.2.2.4 Project Safety Authorization Basis/NEPA and Permits**

The Solid Waste Subproject has an S/RID in place (Hamilton 1995). This S/RID is being revised to include the Liquid Waste and Analytical Services portions of the Waste Management Project.

The Authorization Basis for the Solid Waste Subproject is contained in the following:

- WHC-SD-WM-ISB-007, Central Waste Complex - Interim Safety Basis (Cain 1995)
- WHC-SD-WM-SAR-019, Nonradioactive Dangerous Waste Storage Facility (Bodily 1993)
- HNF-SD-W026-SAR-002, Final Safety Analysis Report for Waste Receiving and Processing Facility (Weidert 1997)
- WHC-SD-CP-SAR-007, T Plant Safety Analysis Report (Johnson 1993)
- WHC-SD-WM-ISB-006, Interim Safety Basis for Solid Waste Facilities (T Plant) (Meyer 1997)
- WHC-SD-WM-SAR-058, Final Safety Analysis for Contact-Handled TRU Waste Drums In-Situ Inspection and Vented Drum Retrieval (Joyce 1994)
- WHC-SD-WM-ISB-002, Solid Waste Burial Grounds Interim Safety Basis (Bendixsen 1995).

#### **4.2.2.2.5 Tri-Party Agreement Requirements**

- TPA.M.19.0 Complete treatment and/or direct disposal of at least 1, 644 cubic meters of CH MLLW. [Due Date: 9/30/2002]
- TPA.M.19.0 Complete treatment/and or direct disposal of at least 1644 cubic meters of contact handled mixed low level waste (CH-MLLW) already in storage as of October, 1995, as well as newly generated Hanford Site mixed low level waste. [Due Date: 9/30/2002]
- TPA.M.32.3 Complete T Plant tank actions. [Due Date: 9/30/1999]
- TPA.M.91.0 Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of all Hanford Site TRU/TRUM, MLLW, and GTC3. [Due Date: TBD]
- TPA.M.91.1 Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing prior to disposal of all Hanford Site Post 1970 TRU/TRUM [Due Date: TBD But No Later Than 12/31/2000]

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- TPA.M.91.4 Complete construction of small container contact handled (CH) TRU/TRUM retrieval facility (s) and initiate (Project W-113) retrieval of small container TRU/TRUM from 200 Area burial grounds. [Due Date: 9/30/2000]
- TPA.M.91.7 Complete Project W-113 for Post 1970 CH TRU/TRUM Retrieval. [Due Date: 9/30/2004]
- TPA.M.91.8.T.1 Complete construction and initiate hot operations of RH and large size TRU/TRUM processing facility (a final acquisition schedule for this facility will be established as an interim milestone no later than December 2000). [Due Date: 6/30/2005]
- TPA.M.91.12 Initiate thermal treatment of currently stored and newly generated CH-MLLW. At least 600 cubic meters will be provided for treatment by December 2005. [Due Date: 12/31/2000]
- TPA.M.91.15 Complete acquisition of facilities and initiate treatment of RH and large container (CH) MLLW [Due Date: 6/30/2008]

#### 4.2.2.2.6 Interfaces

**TABLE 4-26 Solid Waste Treatment Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Hazardous Waste Disposal Contracts	EXTERNAL	Receives T PLANT, HAZ
Waste Isolation Pilot Project	EXTERNAL	Receives M-91 to WIPP, RH TRUM Receives WRAP, CH-TRU Receives WRAP to WIPP, CH TRUM
Tank Farm Operations	RL-TW03	Receives Liquid Waste From 221-T to West Area DSTs Receives Waste from 221-T to 204-AR Receives Waste From 2706-T to 204-AR
Solid Waste Storage & Disposal	RL-WM03	Provides CH LLW I for Compliance Verification Provides Retrieved TRIGA Fuel Provides Retrieved TRIGA Fuel Provides Storage to M-91, CH TRUM Provides Storage to M-91, RH LLMW I Provides Storage to M-91, RH TRUM Provides Storage to WRAP, CH TRUM Receives M-33/M-91, CH-LLW-III Receives M-91 to Disposal, RH LLMW I Receives T Plant Canyon Deactivation, CH-LLW-I Receives T Plant Canyon Deactivation, CH-TRUM Receives T PLANT, CH-LLMW-I Receives T PLANT, CH-LLW-I Receives T PLANT, RH-LLMW-I Receives T PLANT, RH-LLW-I Receives WRAP, CH LLW I Receives WRAP, CH-LLMW-I Receives WRAP, CH-TRU Receives WRAP, CH-TRUM
Liquid Effluents	RL-WM05	Receives T Plant, Treated Liquid Effluent
Analytical Services	RL-WM06	Receives Analytical Laboratory Samples from 200-TP Receives Analytical Laboratory Samples from 200-WRAP Receives In-Field Laboratory Samples from 200-TP Receives In-Field Laboratory Samples from 200-WRAP
Spent Nuclear Fuel Project	RL-WM01	Provides K-Basin Sludge Receives PWR Core 2 Shipment Receives TRIGA Fuel to 200 Area ISA
Canister Storage Building Operations	RL-WM02	Receives PWR Core 2 Shipment Receives TRIGA Fuel to 200 Area ISA



**TABLE 4-26 Solid Waste Treatment Interfaces (Continued)**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Accelerated Deactivation	RL-TP10	Provides Deactivated T-Plant Facility Provides Safe & Compliant Deactivated T-Plant Facility Provides Safe & Compliant Excess T-Plant Facility Provides Safe & Compliant Stabilized T-Plant Facility Provides Stabilized T-Plant Facility Receives Deactivated T-Plant Facility Receives Excess 2706-T Receives Excess T-Plant Facility Receives Excess WRAP Facility Receives Safe & Compliant Deactivated T-Plant Facility Receives Safe & Compliant Excess T-Plant Facility Receives Safe & Compliant Stabilized T-Plant Facility Receives Stabilized T-Plant Facility
Decontamination & Decommissioning	RL-ER06	Receives Safe & Compliant Deactivated T-Plant Facility
ER Disposal Facility (ERDF)	RL-ER04	Receives Rubble from Demolished M-33/M-91 Facility Receives Rubble from WRAP Module 1 Facility Demolition

#### **4.2.2.2.7 Requirements References**

- DOE Order 5820.2A, Radioactive Waste Management"
- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"
- DOE/WIPP-069, WIPP Waste Acceptance Criteria"
- ST 4502, State Waste Discharge Permit for the 200 Area TEDF"
- WHC-SD-WM-MAR-008, TWRS Mission Analysis Report"

#### **4.2.2.3 Liquid Effluents**

##### **4.2.2.3.1 Project Description Summary**

The Liquid Effluents Project provides integrated liquid effluent management to support cleanup of the Hanford Site. Its mission is to responsibly manage current and future liquid effluent streams in a safe, cost-effective, and environmentally-compliant manner. Waste volume reduction support is also provided to tank waste remediation. The mission is achieved through planning and integration; stakeholder interaction; definition of requirements for generators; and provision of timely storage, treatment and disposal capability. The Liquid Effluents Project receives, treats, and disposes of liquid effluents from other projects. Waste acceptance criteria are established for liquid effluents, and compliance with discharge limits is verified.

The facilities owned and operated by the Liquid Effluents Project and the technical approach to accomplishing its mission is described below.

242-A Evaporator - The 242-A Evaporator concentrates dilute liquid tank wastes by evaporation. The volume of tank wastes is reduced to eliminate the need to construct additional double-shell

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tanks (DSTs). The concentrated waste is returned to tank farms for storage. Process condensate from the 242-A Evaporator is sent to the LERF for temporary storage while awaiting treatment in the ETF.

**Liquid Effluent Retention Facility (LERF)** - The LERF consists of three RCRA-compliant surface impoundments for temporarily storing process condensate from the 242-A Evaporator and other liquid effluents. The LERF provides equalization of the flow and pH of the feed to the ETF.

**Effluent Treatment Facility (ETF)** - Liquid effluents are treated in the ETF to remove toxic metals, radionuclides, and ammonia and to destroy organics. The ETF treatment process includes pH adjustment, filtration, ultraviolet light/peroxide (UV/OX) destruction of organics, reverse osmosis (RO), and ion exchange. A truck unloading facility allows liquid effluents to be received from other projects. A cross-site transfer system is used to transfer groundwater and ERDF leachate to the ETF for treatment. The treated effluent has been delisted from RCRA and is discharged under a WAC 173-216 State Waste Discharge Permit to a state-approved land disposal site (SALDS) in the 200 West Area.

**200 Area Treated Effluent Disposal Facility (200 Area TEDF)** - The 200 Area TEDF is a collection and disposal system for non-RCRA waste streams. The effluent is discharged to two 5-acre disposal ponds located east of the 200 East Area. Discharge from the 200 Area TEDF must comply with limits specified in the WAC 173-216 State Waste Discharge Permit.

**300 Area Treated Effluent Disposal Facility (300 Area TEDF)** - The 300 Area TEDF treats industrial wastewater from laboratories and research facilities in the 300 Area. The wastewater is received via the process sewer. Liquid effluents from other projects which meet acceptance criteria can also be received and treated in the 300 Area TEDF. Treatment includes pH adjustment, precipitation, filtration, UV/OX, and ion exchange. The process removes toxic metals including mercury, and destroys organics and cyanide. Treated effluent is monitored and discharged to the Columbia River under an NPDES permit.

**307 Retention Basins** - The retention process sewer system in the 300 Area receives liquid effluents which are potentially radioactive. These liquid effluents collect in the 307 Retention Basins where they are monitored and batch released to the process sewer for subsequent treatment in the 300 Area TEDF. Provisions exist for diverting and isolating off-specification liquid effluents.

**340 Waste Handling Facility** - The 340 Facility previously received radioactive/mixed liquid waste from laboratories in the 300 Area for loadout and transfer to tank farms in the 200 Area. Waste was received via the radioactive liquid waste system and accumulated in two 15,000 gal tanks located in a covered, below-grade vault in the 340 building. Six above-ground 8,000-gal tanks in the adjacent 340-A building provided backup storage capability. The 340-B building was used for rail loadout of the wastes. The 340 Facility ceased receiving liquid wastes in September 1998, but residual waste remains in the tanks. Minimum safe operation and maintenance of the 340 Facility will continue until cleanout is completed.

**Miscellaneous Streams** - Miscellaneous Streams include liquid effluents generated from hydrotest, maintenance, and construction activities; cooling water and condensate discharges; and storm water run-off. These discharges are considered non-hazardous and non-radioactive. Categories of Miscellaneous Streams are permitted under the WAC 173-216 State Waste Discharge Permit Program rather than permitting individual streams. Use of categorical permits

provides a vehicle to easily permit new Miscellaneous Streams of similar characteristics and origin.

#### 4.2.2.3.2 Life-Cycle Material and Waste Flow

The liquid effluent life cycle projections are based on estimates provided by the Projects for volumes of waste water generated.

**Table 4-27 Liquid Effluents Waste/Material Flow (In)**

Major Facility	Category	Period	Value	Units
200 LEF	HLW	2000 - 2018	77100	cubic meters
	Treated Liquid Effluent	2000 - 2035	12500000	cubic meters
	Waste Water	2000 - 2030	2400000	cubic meters
300 LEF	Industrial Waste Water	2000 - 2030	4750000	cubic meters

**Table 4-28 Liquid Effluents Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
200 LEF	CH LLMW I	2000 - 2030	2530	cubic meters
	CH LLW I	2000 - 2030	72.9	cubic meters
	HAZ	2000 - 2030	71.6	cubic meters
	HLW	2000 - 2011	44300	cubic meters
	Sanitary Liquid Waste	2000 - 2032	62400	cubic meters
	Sanitary Solid Waste	2000 - 2034	995.0	cubic meters
	Treated Liquid Effluent	2000 - 2035	22300000	cubic meters
	Waste Water	2000 - 2019	61700	cubic meters
300 LEF	CH LLMW I	2000 - 2030	58.0	cubic meters
	CH LLW I	2000 - 2030	4690	cubic meters
	HAZ	2000 - 2030	72.4	cubic meters
	Sanitary Liquid Waste	2000 - 2025	7730	cubic meters
	Sanitary Solid Waste	2000 - 2025	709.0	cubic meters
	Treated Liquid Effluent	2000 - 2030	4750000	cubic meters

#### 4.2.2.3.3 Facility Life-Cycle Requirements

- Requirements
  - Operation of the LERF shall be in accordance with the Hanford Facility RCRA Permit WA7890008967.
  - Discharge limits for the ETF are specified in the WAC 173-216 State Waste Discharge Permit No.ST 4500, and the U.S. Environmental Protection Agency (EPA) approval of the 200 Area Effluent Treatment Facility Delisting Petition, DOE/RL-92-72 (documented in 60 FR 31115 and codified in 40 CFR 261, Appendix IX, Table 2). Constituents not identified in the permit are subject to the limits in WAC 173-200, Water Quality Standards for Ground Waters of the State of Washington, and 4 percent of the derived concentration guide values in DOE Order 5400.5, Radiation Protection of the Public and Environment, as applicable.

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- The discharge from the 200 Area TEDF must meet the limits specified in the WAC 173-216 State Waste Discharge Permit No. ST 4502. Constituents not identified in the permit are subject to the limits in WAC 173-200, Water Quality Standards for Ground Waters of the State of Washington, and 4 percent of the derived concentration guide values in DOE Order 5400.5, Radiation Protection of the Public and Environment, as applicable. The wastewater can not contain any listed dangerous waste.
- Facilities discharging to the 200 Area TEDF shall implement Best Available Technology (BAT)/All Known, Available, and Reasonable Treatment (AKART). The generator shall provide the information required by WAC 173-240, Submission of Plans and Reports for Construction of Waste Water Facilities.
- Hydrotest, maintenance, and construction discharges are subject to the requirements contained in the State Waste Discharge Permit No. ST 4508.
- Cooling water and condensate discharges are subject to the requirements contained in the State Waste Discharge Permit No. ST4509.
- Industrial storm water discharges are subject to the requirements contained in the State Waste Discharge Permit No. ST 4510.
- Discharge limits for the 300 Area TEDF are specified in the National Pollutant Discharge Elimination System Permit No. WA-002591-7, and the Washington Department of Natural Resources Land Lease. Constituents not identified in the permits are subject to the limits in WAC 173-201A, Water Quality Standards for Surface Waters of the State of Washington, and 4 percent of the derived concentration guide values in DOE Order 5400.5, Radiation Protection of the Public and Environment, as applicable.
- Operation of the 242-A Evaporator shall be in accordance with the Hanford Facility RCRA Permit WA7890008967.
- Operation of the ETF shall be in accordance with the Hanford Facility RCRA Permit WA7890008967.
- Categorical WAC 173-216 permit applications shall be used to permit groups of similar Miscellaneous Streams.
- A study to identify options for the selection and implementation of Best Management Practices for miscellaneous streams, and an implementation schedule, shall be prepared for Ecology approval.
- The draft Hanford Air Operating Permit contains terms and conditions of the Washington Department of Ecology Air Operating Permit (permit number not established, application DOE/RL-95-07), and the Washington Department of Health Hanford Site Radioactive Air Emissions License No. FF-01.
- Solid waste transferred to the ERDF shall meet the waste acceptance criteria specified in the Environmental Restoration Disposal Facility Waste Acceptance Criteria, BHI-00139.
- Operation and maintenance of the 242-A Evaporator shall be in accordance with HNF-SD-WM-SAR-023, 242-A Evaporator/Crystallizer Safety Analysis Report.
- Solids shall not be allowed to accumulate in the LERF basins which may require special cleanout actions. [LERF Treatment Exemption, 95-LEP-015, 40 CFR 2681].
- Storage of wastewater containing LDR constituents shall be allowed for up to one year prior to treatment in the ETF. [LERF Treatment Exemption, 95-LEP-015, 40 CFR 268].

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- Operation and maintenance of the 200 Area TEDF shall be in accordance with the general safety requirements in approved Project Hanford procedures for Occupational Safety and Health. A preliminary safety evaluation was completed for the 200 Area TEDF titled "Preliminary Safety Evaluation - 200 Area Treated Effluent Disposal Facility, Project W-049H." The 200 Area TEDF is a general-use facility and safety documentation is not required according to DOE Order 5481.1B.
- The Contractor shall manage process sewer services.
- All existing injection wells shall be registered under WAC 173-218. New injection wells shall be registered before being placed in service.
- Requirements for effluent monitoring, sampling, analysis, operating group notification, physical interface points, implementing procedures, and configuration control are documented in the 200 Area Treated Effluent Disposal Facility Interface Control Document, HNF-SD-W049H-ICD-001.
- Utilize waste minimization and evaporation to manage the waste volume such that the tank capacity of existing double-shell storage tanks is not exceeded.
- Operate treatment facilities and systems for liquid effluents.
- Manage current and future Hanford Site liquid effluents, including collecting, treating, and disposing of liquid effluent wastes. The program uses an integrated liquid effluent treatment system with a combination of local and central treatment systems to achieve cost-effective liquid effluent disposal. Current liquid effluent facilities include the 200 Area Liquid Effluent Retention Facility, 200 Area Treated Effluent Disposal Facility (TEDF), 200 Area Effluent Treatment Facility, 300 Area TEDF, and the 340 facility.
- Operation and maintenance of the 307 Retention Basins shall be in accordance with the Hanford 300 Area Retention Process Sewer Hazard Categorization, HNF-SD-WM-SAD-027.

● **Planning Assumptions**

- Facilities and systems shall be made available for other uses.
- Facilities shall be transitioned to the surveillance and maintenance phase when no longer required to support the site mission.
- Operation of the ETF must be consistent with the information and limits contained in the Notice of Construction (NOC) Application DOE/RL No. 93-RPB-056 (EPA) and No. 93-RPS-275 (Phase II).
- Operations and maintenance of the LERF shall be in accordance with the Liquid Effluent Retention Facility Final Hazard Categorization Report, HNF-SD-WM-SAD-040, and the Liquid Effluent Retention Facility Auditable Safety Analysis, HNF-SD-LEF-ASA-002.
- Operation of the LERF must be consistent with the information and limits contained in the Notice of Construction (NOC) Application DOE/RL No. 9001137.
- Operation and maintenance of the ETF shall be in accordance with the Hazard Categorization Report for the 200 Area Effluent Treatment Facility, WHC-SD-C018H-HC-002, and the 200 Area Effluent Treatment Facility Auditable Safety Analysis, HNF-SD-ETF-ASA-001.
- Operation and maintenance of the 300 Area TEDF shall be in accordance with the Hanford 300 Area Treated Effluent Disposal Facility Inventory at Risk Calculations and Safety Analysis, WHC-SD-WM-SAD-025.

- Operation and maintenance of the 340 Waste Handling Facility shall be in accordance with the 340 Waste Handling Facility Interim Safety Basis (ISB), WHC-SD-WM-ISB-003, and the Safety Analysis Report for Packaging (On-Site) LR56H Cask System, HNF-SD-TP-SARP-009.

#### **4.2.2.3.4 Project Safety Authorization Basis/NEPA and Permits**

The following safety documentation has been prepared for the Liquid Waste Program facilities.

- Operation and maintenance of the 242-A Evaporator are in accordance with Evaporator/Crystallizer Safety Analysis Report, HNF-SD-WM-SAR-023.
- Operation and maintenance of the LERF are in accordance with HNF-SD-WM-SAD-040, Liquid Effluent Retention Facility Final Hazard Category Determination, and HNF-SD-LEF-ASA-002, 242AL Liquid Effluent Retention Facility Auditable Safety Analysis.
- Operation and maintenance of the ETF are in accordance with WHC-SD-C018H-HC-002, Hazard Categorization Report for the 200 Area Effluent Treatment Facility, and HNF-SD-ETF-ASA-001, 200 Area Effluent Treatment Facility Auditable Safety Analysis.
- A preliminary safety evaluation was completed for the 200 Area TEDF ("Preliminary Safety Evaluation - 200 Area Treated Effluent Disposal Facility, Project W-049H"). The 200 Area TEDF is a general-use facility and safety documentation is not required according to DOE Order 5481.1B, Safety Analysis and Review System.
- Operation and maintenance of the 300 Area TEDF are in accordance with WHC-SD-WM-SAD-025, Hanford 300 Area Treated Effluent Disposal Facility Inventory at Risk Calculations and Safety Analysis.
- Operation and maintenance of the 340 Waste Handling Facility are in accordance with WHC-SD-WM-ISB-003, 340 Waste Handling Facility Interim Safety Basis (ISB), and WHC-SD-TP-SARP-015, Safety Analysis Report for Packaging (On-Site) Double-Shell Tank Car.
- Operation and maintenance of the 307 Retention Basis are in accordance with HNF-SD-WM-SAD-027, Hanford 300 Area Retention Process Sewer Hazard Categorization

NEPA Documentation - The following NEPA documentation has been approved for the Liquid Effluents facilities:

- ERDA-1538, Waste Management Operations Environmental Impact Statement
- DOE/EIS-0113, Hanford Defense Waste Environmental Impact Statement
- DOE/EIS-0189, Tank Waste Remediation System Environmental Impact Statement
- DOE/EIS-0189-SA2, Tank Waste Remediation System Supplement Analysis
- DOE/EIS-0245, Spent Nuclear Fuel from K Basins Environmental Impact Statement
- DOE/EIS-0245-SA1, Spent Nuclear Fuel from K Basins Supplement Analysis
- DOE/EA-0383, Hanford Environmental Compliance Project Environmental Assessment
- DOE/EA-0915, Waste Tank Safety Program Environmental Assessment
- DOE/EA-0980, 300 Area Process Sewer Piping Upgrade and 300 Area Treated Effluent Disposal Facility Discharge to the City of Richland Sewage System
- Various CXs have been generated to support small additions, alterations, and or upgrades to Liquid Effluents facilities.

In addition, a Programmatic EIS has been prepared, DOE/EIS-0200-F, Final Waste Management Programmatic Environmental Impact Statement. As the associated Records of Decision (RODs) are published, they will have various effects on Hanford Site waste management operations. A Hanford Site Solid (Radioactive and Hazardous) Waste Program Environmental Impact Statement, DOE/EIS-0286, is currently in preparation to support the direction provided by DOE/EIS-0200-F.

#### **4.2.2.3.5 Tri-Party Agreement Requirements**

- TPA.M.26.5.F Submit to EPA and ecology an evaluation of development status of tritium treatment technology that would be pertinent to the cleanup and management of tritiated waste water (e.g., the 242-a evaporator process condensate liquid effluent) and tritium contaminated groundwater at the hanford site.

Due Date: 8/31/1999.

- TPA.M.26.5.H Submit to EPA and ecology an evaluation of development status of tritium treatment technology that would be pertinent to the cleanup and management of tritiated waste water (e.g., the 242-a evaporator process condensate liquid effluent) and tritium contaminated groundwater at the hanford site.

Due Date: 8/31/2001.

- TPA.M.26.5.J Submit to EPA and ecology an evaluation of development status of tritium treatment technology that would be pertinent to the cleanup and management of tritiated waste water (e.g., the 242-a evaporator process condensate liquid effluent) and tritium contaminated groundwater at the hanford site.

Due Date: 8/31/2003.

- TPA.M.26.5.L Submit to EPA and ecology an evaluation of development status of tritium treatment technology that would be pertinent to the cleanup and management of tritiated waste water (e.g., the 242-a evaporator process condensate liquid effluent) and tritium contaminated groundwater at the hanford site.

Due Date: 8/31/2005.

#### **4.2.2.3.6 Interfaces**

**TABLE 4-29 Liquid Effluents Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Offsite Landfill	EXTERNAL	Receives 242-A Evaporator Sanitary Solid Waste Receives 300 LEF Sanitary Solid Waste Receives ETF, Sanitary Solid Waste
Columbia River	EXTERNAL	Receives 300 Area TEDF Discharge
Soil Column	EXTERNAL	Receives Treated Liquid Effluent Discharged to 200E SALDS
Hazardous Waste Disposal Contracts	EXTERNAL	Receives 300 TEDF HAZ Receives ETF, HAZ
Tank Farm Operations	RL-TW03	Provides Dilute Tank Waste Provides Tank Farms Treated Liquid Effluent Receives 242-A HLW from Training Runs Receives Concentrated Tank Waste

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**TABLE 4-29 Liquid Effluents Interfaces (Continued)**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Privatization Phase I	RL-TW06	Provides LAW/HLW Plant Phase 1 Deactivation Non-radioactive/Non-dangerous Liquid Effluent Provides LAW/HLW Plant Phase I, Deactivation Waste Water Provides LAW/HLW Plant Phase I, Non-radioactive/Non-dangerous Liquid Effluent Provides LAW/HLW Plant Phase I, Waste Water
Privatization Phase II	RL-TW07	Provides HLW Phase 2 Deactivation Waste Water Provides LAW Phase 2 Deactivation Waste Water Provides LAW Phase 2 Non-radioactive/Non-dangerous Liquid Effluent Provides LAW Phase 2 Waste Water Provides TWRS Ph2 HLW Deactivation WW, Non-radioactive/Non-dangerous Liquid Effluent Provides TWRS Ph2 HLW WW, Non-radioactive/Non-dangerous Liquid Effluent Provides TWRS Priv Ph 2 HLW, Waste Water
Solid Waste Storage & Disposal	RL-WM03	Provides 200 East Mixed Waste Disposal Trench Leachate Provides Mixed Waste Disposal Trench Leachate Receives 300 TEDF CH LLMW I Receives 300 TEDF CH LLW I Receives ETF, CH-LLMW-I Receives ETF, CH-LLW-I
Solid Waste Treatment	RL-WM04	Provides T Plant, Treated Liquid Effluent
Analytical Services	RL-WM06	Provides 222-S Lab Wastewater Receives Analytical Laboratory Samples from 200A-LEF Receives Analytical Laboratory Samples from 242-A Evap Receives In-Field Laboratory Samples from 200A-LEF Receives In-Field Laboratory Samples from 300A-LEF Receives Laboratory Samples from 300A-LEF
Spent Nuclear Fuel Project	RL-WM01	Provides K Basin Deactivation Wastewater Provides K Basin Level Control Water
B-Plant	RL-TP01	Provides B Plant Chemical Sewer
WESF	RL-TP02	Provides WESF Cooling Water and Liquid Effluent
PFP	RL-TP05	Provides PFP Wastewater
Accelerated Deactivation	RL-TP10	Receives Excess 200 Area ETF Receives Excess 200 Area LERF Receives Excess 242-A Evaporator System
324/327 Facility Transition	RL-TP08	Provides 324 Building Process Sewer Industrial Waste Water Transfer Provides 324 Potentially Contaminated Waste Water Provides 327 Building Process Sewer Industrial Waste Water Transfer
Hanford Surplus Facility Prog 300A Revitalization	RL-TP14	Provides 306W Industrial Waste Water Transfers Provides Misc Rad Facility Industrial Waste Water Transfers
300 Area Source Remedial Action	RL-ER03	Receives Excess 307 Liquid Waste Transfer Facility Basins
Groundwater Management	RL-ER08	Provides 200-UP-1 Groundwater Provides Groundwater Monitoring Purgewater
ER Disposal Facility (ERDF)	RL-ER04	Provides ERDF Leachate
PNNL Waste Management	RL-ST01	Provides 306W Industrial Waste Water Transfers Provides 325 Potentially Contaminated Waste Water Provides 326 Building Process Sewer Industrial Waste Water Transfer Provides 326 Potentially Contaminated Waste Water Provides 329 Building Process Sewer Industrial Waste Water Transfer Provides 329 Potentially Contaminated Waste Water Provides 331 Complex Industrial Waste Water Transfer Provides 338 Industrial Waste Water Provides Misc Rad Facility Industrial Waste Water Transfers
200W SALDS	EXTERNAL	Receives Treated Liquid Effluents Discharged to 200W SALDS

#### 4.2.2.3.7 Requirements References

- 95-LEP-015, LERF Treatment Exemption"



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- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-93-94, Plan and Schedule for Disposition and Regulatory Compliance for Miscellaneous Streams"
- DOE/RL-96-92, Hanford Strategic Plan"
- HNF-SD-W049H-ICD-001, 200 Area Treated Effluent Disposal Facility Interface Control Document"
- HNF-SD-WM-SAD-027, Hanford 300 Area Retention Process Sewer Hazard Categorization"
- ST 4500, State Waste Discharge Permit for the 200 Area ETF"
- ST 4502, State Waste Discharge Permit for the 200 Area TEDF"
- ST 4508, State Waste Discharge Permit for Hydrotest, Maintenance, and Construction Discharges"
- ST 4509, State Waste Discharge Permit for Cooling Water and Condensate Discharges"
- ST 4510, State Waste Discharge Permit for Industrial Storm Water Discharges"
- WA-002591-7, National Pollutant Discharge Elimination System Permit for the 300 Area TEDF"
- WA780008967, Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit"
- WAC 173-218, Underground Injection Control Program"
- WHC-SD-WM-SAR-023, 242-A Evaporator/Crystallizer Safety Analysis Report"

#### **4.2.2.4 Analytical Services**

##### **4.2.2.4.1 Project Description Summary**

The Hanford Analytical Services Project supports the Hanford mission by providing analytical services to site programs. These services include waste and environmental sample analysis, process control support, field and sampling services, development services and site expertise in chemistry and data quality. The Analytical Services Project operates on-site analytical laboratories, contracts commercial services, establishes site laboratory quality standards, and integrates all Hanford analytical services. Cost effective, quality and timely services are provided utilizing a combination of government-contracted and commercial capabilities based on biannual site projections.

##### **4.2.2.4.2 Life-Cycle Material and Waste Flow**

**Table 4-30 Analytical Services Waste/Material Flow (Out)**

<b>Major Facility</b>	<b>Category</b>	<b>Period</b>	<b>Value</b>	<b>Units</b>
222-S Laboratory	Asbestos	2000 - 2025	52.0	cubic meters
	CH LLMW I	2000 - 2035	1700	cubic meters
	CH LLMW III	2000 - 2035	562.0	cubic meters
	CH LLW I	2000 - 2035	2230	cubic meters
	CH LLW III	2000 - 2035	2230	cubic meters
	HAZ	2000 - 2035	490.0	cubic meters
	HLW	2000 - 2018	953.0	cubic meters
	Sanitary Solid Waste	2000 - 2034	26200	cubic meters
	Treated Liquid Effluent	2000 - 2035	165000	cubic meters

**Table 4-30 Analytical Services Waste/Material Flow (Out) (Continued)**

Major Facility	Category	Period	Value	Units
WSCF	CH LLMW I	2000 - 2046	483.0	cubic meters
	CH LLW I	2000 - 2046	483.0	cubic meters
	HAZ	2000 - 2046	5.79	cubic meters
327 Facility	CH LLMW I	2000 - 2006	10.5	cubic meters
	CH LLMW III	2000 - 2007	63.1	cubic meters
	CH LLW I	2000 - 2007	147.0	cubic meters
	CH LLW III	2000 - 2007	143.0	cubic meters
	CH TRU	2000 - 2007	12.5	cubic meters

#### 4.2.2.4.3 Facility Life-Cycle Requirements

- Requirements
  - Facilities discharging to the 200 Area TEDF shall implement Best Available Technology (BAT)/All Known, Available, and Reasonable Treatment (AKART). The generator shall provide the information required by WAC 173-240, Submission of Plans and Reports for Construction of Waste Water Facilities.
  - Environmental support facilities shall be operated and maintained and provided in a safe, secure, environmentally sound, and cost-effective manner. This requirement includes provision of calibrations laboratory services

- HANFORD ANALYTICAL SERVICES.

The Contractor shall:

(1) Manage and integrate the Hanford Analytical Services to provide analytical, field support, process development services, and optimize the use of a combination of onsite and offsite analytical laboratories. Support and assist Hanford programs and projects in determining and consolidating requirements for analytical services; provide guidance on analytical capabilities and limitations; facilitate the use of Data Quality Objectives; ensure user data quality requirements are met; and provide guidance in interpretation and evaluation of analytical results.

(2) Consolidate sample management and evaluate forecasted sitewide analytical requirements to assure laboratory core competencies, capabilities, and capacities are maintained and available to meet program needs. The management and evaluation function shall be independent of the administration of the onsite laboratories and of the administration of contracts with offsite laboratories. Oversee analytical laboratory operations to assure safe and effective use of resources, conformance to conduct of operations requirements, and sound environmental practices.

(3) Conduct a self-assessment program using performance measurements and customer feedback to measure the quality, timeliness, and cost effectiveness of analytical services support, and to provide the basis for continued improvements in services.

(4) Provide site-wide integration in the development and adoption of Data Quality Objectives (DQO) methodology to determine sampling and analytical requirements for characterization of wastes, facility processing data, and environmental monitoring. Obtain regulator approval of DQO methodology where necessary to demonstrate compliance with legal requirements to provide physical and chemical properties necessary for project execution.

- Planning Assumptions

- The Hanford Site Infrastructure shall be optimized.  
Develop cost-competitive infrastructure commensurate with mission needs.  
Involve staff and community in the outsourcing process to assure the most cost competitive infrastructure.
- Central Plateau facilities shall be maintained within the approved safety envelope
- The Waste Sampling and Characterization Facility (WSCF) complex shall be operated and maintained within the approved safety envelope
- 222-S shall be operated and maintained within the approved safety envelope.

#### **4.2.2.4.4 Project Safety Authorization Basis/NEPA and Permits**

The results of the hazards analysis are reported in WHC-SD-CP-ISB-002, 222-S Laboratory Interim Safety Basis.

#### 4.2.2.4.5 Tri-Party Agreement Requirements

- None

#### 4.2.2.4.6 Interfaces

**TABLE 4-31 Analytical Services Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Offsite Landfill	EXTERNAL	Receives AN SRVCS Solid Sanitary Waste Receives AN SRVCS, Asbestos
Hazardous Waste Disposal Contracts	EXTERNAL	Receives 222-S Lab Hazardous Waste Receives HAZ from Analytical Laboratory Receives WSCF, HAZ
Tank Waste Characterization	RL-TW01	Provides DST Samples Provides SST Samples
Tank Farm Operations	RL-TW03	Provides Analytical Laboratory Samples from TWRS Provides In-Field Laboratory Samples from TWRS Receives Liquid Waste From 222-S Lab to West Area DSTs Receives Waste from 222-S Lab to 204-AR
Solid Waste Storage & Disposal	RL-WM03	Provides Analytical Laboratory Samples from 200-SWM Provides In-Field Laboratory Samples from 200-SWM Receives 327 Facility, CH LLMW I Receives 327 Facility, CH LLW I Receives 327 Facility, CH-LLMW-III Receives 327 Facility, CH-LLW-III Receives 327 Facility, CH-TRU Receives ANALYT LAB, CH-LLMW-I Receives ANALYT LAB, CH-LLMW-III Receives ANALYT LAB, CH-LLW-I Receives ANALYT LAB, CH-LLW-III Receives WSCF, CH-LLMW-I Receives WSCF, CH-LLW-I
Solid Waste Treatment	RL-WM04	Provides Analytical Laboratory Samples from 200-TP Provides Analytical Laboratory Samples from 200-WRAP Provides In-Field Laboratory Samples from 200-TP Provides In-Field Laboratory Samples from 200-WRAP
Liquid Effluents	RL-WM05	Provides Analytical Laboratory Samples from 200A-LEF Provides Analytical Laboratory Samples from 242-A Evap Provides In-Field Laboratory Samples from 200A-LEF Provides In-Field Laboratory Samples from 300A-LEF Provides Laboratory Samples from 300A-LEF Receives 222-S Lab Wastewater
Spent Nuclear Fuel Project	RL-WM01	Provides Analytical Laboratory Samples from SNF Provides In-Field Laboratory Samples from SNF Provides Spent nuclear fuel analytical samples. Receives Analyzed K-Basin spent nuclear fuel samples Receives Bioassay and Dosimetry Services for SNF
WESF	RL-TP02	Receives Analytical Laboratory Samples from WESF
PFP	RL-TP05	Provides Analytical Laboratory Samples from PFP
Accelerated Deactivation	RL-TP10	Provides Analytical Laboratory Samples from 200-TP Provides Deactivated 222-S Laboratory Provides In-Field Laboratory Samples from 200-TP Provides Stabilized 222-S Laboratory Receives Safe & Compliant Deactivated 222-S Laboratory Facility Receives Safe & Compliant Excess 222-S Laboratory Facility Receives Safe & Compliant Stabilized 222-S Laboratory Facility
324/327 Facility Transition	RL-TP08	Receives Excess 327 Facility
100 Area Source Remedial Action	RL-ER01	Provides Analytical Laboratory Samples from Environmental Restoration

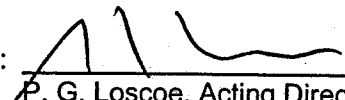
**TABLE 4-31 Analytical Services Interfaces (Continued)**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Decontamination & Decommissioning	RL-ER06	Receives Safe & Compliant Deactivated 222-S Laboratory Facility Receives Safe & Compliant Deactivated WSCF Lab

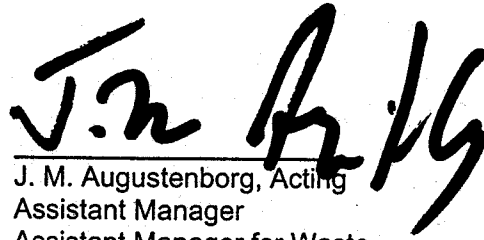
**4.2.2.4.7 Requirements References**

- DOE/RL-96-92, Hanford Strategic Plan"
- ST 4502, State Waste Discharge Permit for the 200 Area TEDF"

Concurrence:

  
P. G. Loscoe, Acting Director  
Spent Nuclear Fuels Project  
Division,  
U.S. Department of Energy,  
Richland Operations Office

Approved by:

  
J. M. Augustenborg, Acting  
Assistant Manager  
Assistant Manager for Waste  
Management,  
U.S. Department of Energy,  
Richland Operations Office

Concurrence is granted  
upon the condition that the  
comments regarding the  
identified requirements and  
assumptions and strategic goals,  
provided prior to this formalization,  
are fully incorporated ~~as~~ resolved on  
September 27, 1999.

#### **4.2.3 SNF Mission Area**

The Spent Nuclear Fuel (SNF) mission on the Hanford Site supports the Hanford Mission to clean up the Site by providing safe, economic, environmentally sound management of Site Spent Nuclear Fuel (SNF) in a manner which stages it to final disposition, and deactivating the associated facilities.

##### **4.2.3.a Mission Area Structure**

- Spent Nuclear Fuel Project (RL-WM01)
- Canister Storage Building Operations (RL-WM02)

##### **4.2.3.b Hanford Strategic Plan Goals**

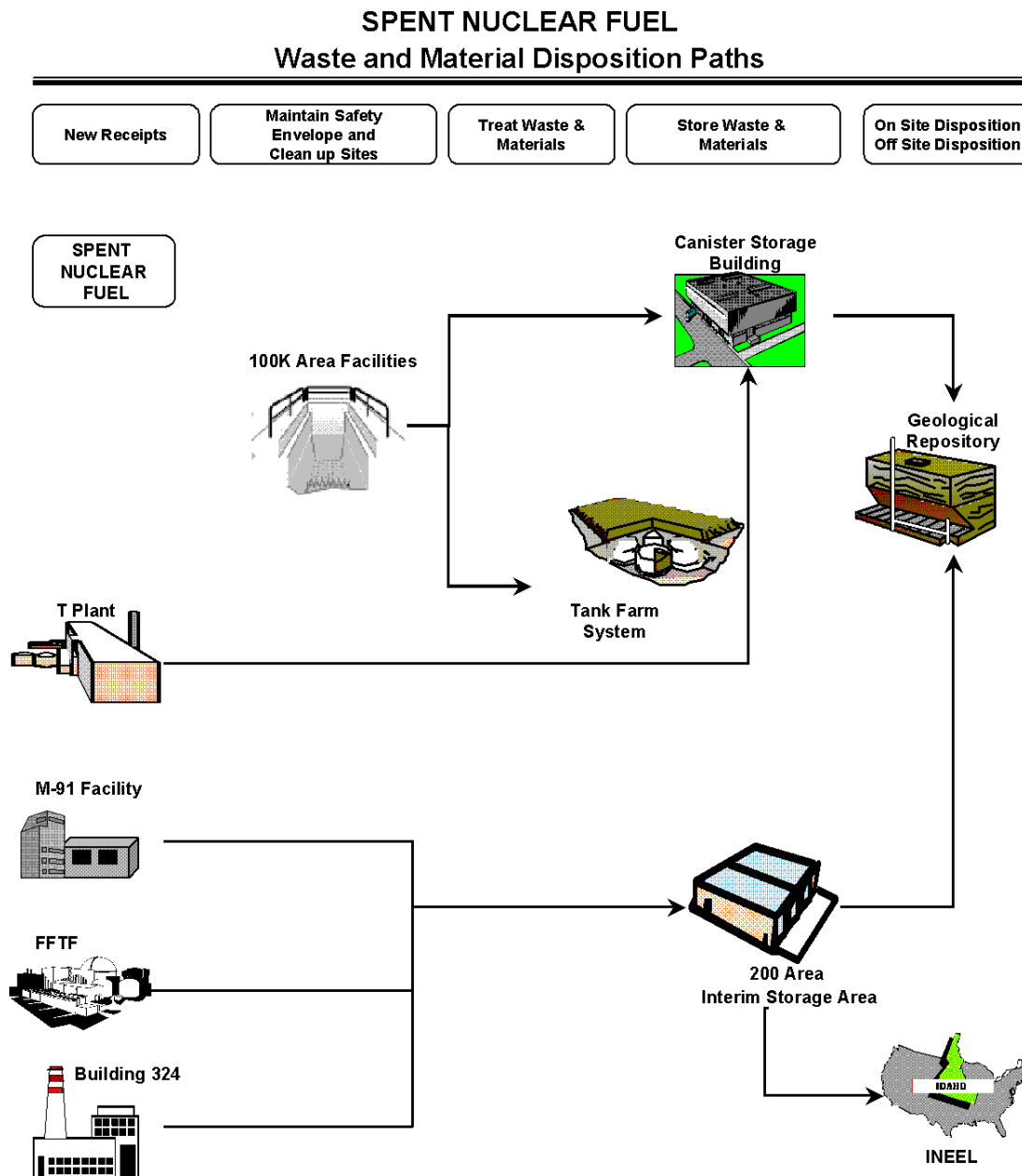
The Waste, Material, and Geographic Area Goals contained in the Hanford Strategic Plan (DOE/RL-96-92), represent planning assumptions around which the Hanford Environmental Management effort is structured. Each Mission Area and Project partially support each of these goals, per scope of work described in the Prime Contracts. As an aggregate, all Mission Areas and Projects will fulfill the requirements of the Hanford Strategic Plan. As such, the Goals identified in this section cover only the goals directly supported by that specific Mission Area. Further details are contained in the Project planning documents. As records-of-decision are issued, these Goals will be amended in future revisions of the Hanford Strategic Plan.

- Remove and/or stabilize spent fuel, surplus facilities, and waste sites to protect groundwater and the Columbia River and to ensure protection of people, the environment, and natural/cultural resources. Pending Congressional action on the Wild and Scenic River designation, use will continue to be restricted; sensitive ecological, cultural, and native American resources will be protected.
- Groundwater remains restricted for a yet to be determined period pending decisions on final attainable cleanup levels. Remediation actions will protect the Columbia River and the near-shore environment, reduce contamination entering the groundwater, and control the migration of plumes that threaten groundwater quality beyond the boundaries of the Central Plateau.
- Safe, stable, secure onsite storage will be provided for all nuclear materials pending decisions on final disposition or until beneficial offsite uses are identified. Facilities without identified future uses will be transitioned to low-cost, stable deactivated conditions (requiring minimal surveillance and maintenance) pending eventual D&D and removal or closure.
- Surplus facilities will be decommissioned and decontaminated sufficiently to enable removal or closure through entombment.
- Spent nuclear fuels will be prepared and packaged as necessary for interim, dry storage onsite, and shipped offsite for disposal in a national repository.

#### 4.2.3.c Technical Logic



Figure 4-4 SNF Material/Flow Logic



990390 Systems Engineering

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**4.2.3.d Facility Life-Cycle Responsibility Assignments**

**Table 4-32 Spent Nuclear Fuel Facility Life-Cycle Responsibility Assignments**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
<b>100 K Area Facilities</b>	RL-WM01				RL-WM01		RL-ER05 RL-ER06
105KE	RL-WM01				RL-WM01		RL-ER06
105KW	RL-WM01				RL-WM01		RL-ER06
119KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1614KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
165KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
165KW	RL-WM01				RL-WM01		RL-ER06
166AKE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1705KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1706KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1706KEL	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1706KER	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1713KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1713KW	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1714-KW	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1714KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1717K	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1724-K	RL-WM01				RL-WM01	RL-WM01	RL-ER06
181KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
183-2KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
183-3KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
183-4KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
183.1KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
183.5KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
183.6KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
183KW	RL-WM01				RL-WM01		RL-ER06
1908K	RL-WM01				RL-WM01	RL-WM01	RL-ER06
1908KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
190KE	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO101	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO102	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO214	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO236	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO237	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO293	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO382	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO401	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO402	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO420	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO442	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO907	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO928	RL-WM01				RL-WM01	RL-WM01	RL-ER06
MO969	RL-WM01				RL-WM01	RL-WM01	RL-ER06
<b>Canister Storage Building</b>	RL-TW09 RL-WM01			RL-TW09 RL-WM01	RL-TW09 RL-WM01 RL-WM02	RL-TW09 RL-WM02	RL-WM02
212H	RL-WM01			RL-WM01	RL-WM02	RL-WM02	RL-WM02
<b>200 Interim Storage Area (ISA)</b>	RL-WM01			RL-WM01	RL-WM01 RL-WM02	RL-WM02	RL-WM02

\* RL PBS Identifier Index:

RL-ER05 - Surveillance & Maintenance  
 RL-ER06 - Decontamination & Decommissioning  
 RL-TW09 - Immobilized Tank Waste Storage & Disposal  
 RL-WM01 - Spent Nuclear Fuel Project  
 RL-WM02 - Canister Storage Building Operations

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**TABLE 4-33 Spent Nuclear Fuel Facility Life-Cycle Responsibility Assignments for Waste Sites**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
<b>RoR Soil Site Operable Units</b>	Active		RL-ER01 RL-ER05	RL-ER01 RL-ER07 RL-ER09
116-K-3, 1904-K Outfall Structure, 1908-K Outfall Structure	Active	RL-WM01	RL-ER01	RL-ER01
100-K-2, 118-K-2, 118-K-2 Sludge Burial Ground, Burial Area	Active	RL-WM01	RL-ER01	RL-ER01
100-K-29, 183-KE Sandblasting Site	Active	RL-WM01	RL-ER01	RL-ER01
100-K-35, 183-KE Acid Neutralization Pit	Active	RL-WM01	RL-ER01	RL-ER01
100-K-36, 1706-KE Chemical Storage Facility Dry Well	Active	RL-WM01	RL-ER01	RL-ER01
100-K-37, 1706-KE Sulfuric Acid Tank	Active	RL-WM01	RL-ER01	RL-ER01
100-K-38, 1706-KE Caustic Soda Tank	Active	RL-WM01	RL-ER01	RL-ER01
100-K-4, 1706-KE Wet Fish Studies Ponds and Valve Pit	Active	RL-WM01	RL-ER01	RL-ER01
100-K-43, KW Basin, 105-KW Fuel Storage Basin, K West Basin, Irradiated Fissile Material Storage	Rejected(Proposed)	RL-WM01		
100-K-46, 119-KE French Drain, Drywell	Active	RL-WM01	RL-ER01	RL-ER01
100-K-47, 1904-K Process Sewer	Active	RL-WM01	RL-ER01	RL-ER01
100-K-50, 1725-K & 1726-K Sanitary Sewer System Holding Tank	Active	RL-WM01	RL-ER01	RL-ER01
100-K-51, 105-KE 90-Day Waste Accumulation Area, 100K 90-Day Waste Storage Facility	Active	RL-WM01	RL-ER01	RL-ER01
100-K-52, 1706-KE Wet Fish Studies Laboratory	Rejected	RL-WM01		
100-K-58, 100-KE Water Treatment Facilities Underground Pipelines	Active	RL-WM01		
100-K-67, 165-KE Power Control Building	Active	RL-WM01	RL-ER01	RL-ER01
100-K-68, 105-KE Pump Gallery and Catch Tank, D Sump	Active	RL-WM01		
100-K-69, 105-KE Sump "C"	Active	RL-WM01		
100-K-7, 165-KE Ethylene Glycol Tanks, 165-KE-E and 165-KE-W	Rejected	RL-WM01		
100-K-70, 105-KE Waste Storage Tank, Holding Tank	Active	RL-WM01		
100-K-71, 105-KE Collection Box	Active	RL-WM01		
100-K-72, 105-KW Pump Gallery and Catch Tank, D Sump	Active	RL-WM01	RL-ER01	RL-ER01
100-K-73, 105-KW Collection Box	Active	RL-WM01		
100-K-74, 105-KW Waste Storage Tank, Holding Tank	Active	RL-WM01		
100-K-75, 105-KW Sump "C"	Active	RL-WM01		
116-KE-6A, 1706-KE Condensate Collection Tank, 1706-KE Waste Treatment System	Active	RL-WM01	RL-ER01	RL-ER01
116-KE-6B, 1706-KE Evaporation Tank, 1706-KE Waste Treatment System	Active	RL-WM01	RL-ER01	RL-ER01
116-KE-6C, 1706-KE Waste Accumulation Tank, 1706-KE Waste Treatment System	Active	RL-WM01	RL-ER01	RL-ER01
116-KE-6D, 1706-KE Ion Exchange Column, 1706-KE Waste Treatment System	Active	RL-WM01	RL-ER01	RL-ER01
120-KE-8, 165-KE Brine Pit, 165-KE Brine Mixing Tank	Active	RL-WM01	RL-ER01	RL-ER01
126-KE-2, 183-KE Liquid Alum Storage Tank #2	Active	RL-WM01	RL-ER01	RL-ER01
1607-K1, 1607-K1 Septic Tank and Associated Drain Field, 124-K-1, 1607-K1 Sanitary Sewer System, 1607-K1 Septic Tank	Active	RL-WM01	RL-ER01	RL-ER01
1607-K4, 1607-K4 Septic Tank and Associated Drain Field, 124-K-2, 1607-K4 Sanitary Sewer System, 1607-K4 Septic Tank	Active	RL-WM01	RL-ER01	RL-ER01
1607-K5, 1607-K5 Septic Tank and Associated Drain Field, 124-KE-2, 1607-K5 Sanitary Sewer System, 1607-K5 Septic Tank	Active	RL-WM01	RL-ER01	RL-ER01
1607-K6, 1607-K6 Septic Tank and Associated Drain Field, 124-KW-1, 1607-K6 Sanitary Sewer System, 1607-K6 Septic Tank	Active	RL-WM01	RL-ER01	RL-ER01
<b>CP Soil Site Operable Units</b>	Active		RL-ER02 RL-ER05	RL-ER02 RL-ER07
HWVP, Hanford Waste Vitrification Plant	Active	RL-WM01		RL-ER02
UPR-200-E-65, UN-216-E-65, 241-A-151 Diversion Box Radioactive Contamination, UN-200-E-65	Rejected(Proposed)	RL-WM01		
UPR-200-E-67, UN-216-E-67, Radioactively Contaminated Pipe Encasement, UN-200-E-67	Rejected(Proposed)	RL-WM01		
UPR-200-W-40, Line Break at 241-TX-154, UPR-200-W-38, UPR-200-W-160, 216-T-30, UN-200-W-40,	Rejected(Proposed)	RL-WM01		
UPR-200-E-70, Radioactive Contamination from Jumper Removal, UPR-216-E-70, UN-200-E-70	Rejected(Proposed)	RL-WM01		
<b>CC Soil Site Operable Units</b>	Active		RL-ER02	RL-ER02 RL-ER07
600-212, Relocatable Latrine Facility Holding Tank System	Active	RL-WM01	RL-ER02	RL-ER02

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The 'Rejected' and 'Completed' waste sites are part of the Project Hanford Management Contract (PHMC), but require no additional work from the PHMC team. When they are removed from the contract via direction from the RL Contracting Officer representative, they will be removed from this specification.

\* RL PBS Identifier Index:

RL-ER01 - 100 Area Source Remedial Action  
RL-ER02 - 200 Area Source Remedial Action  
RL-ER05 - Surveillance & Maintenance  
RL-ER07 - Long Term Surveillance & Maintenance  
RL-ER09 - N Area Deactivation  
RL-WM01 - Spent Nuclear Fuel Project

#### **4.2.3.e Performance Measures**

The following are "process" performance measures for SNF. These measures monitor the movement and processing of SNF and other waste materials as presented in this mission area's Technical Logic Diagram:

- Amount of fuel stabilized during period. [Includes annual throughput of K Basins SNF retrieved from the basin and processed through CVD and Na bonded FFTF SNF repackaged in CSB and transferred to INEEL for disposition.]
- Amount of fuel in stabilization process, not yet stabilized. [Includes K Basin SNF not yet retrieved and sludge.]
- Amount of stable fuel, not disposition ready. [Cumulative inventory of SNF processed through Cold Vacuum Drying.]
- Amount of fuel in disposition ready storage. [Cumulative inventory of K Basins SNF processed through Cold Vacuum Drying and sitewide SNF received for interim storage from other Hanford facilities.]

For each mission-level performance measure that monitors the amount of materials moved or processed, the associated MYWP should report the:

1. Quantity moved or processed in the measurement period. Quantity should be measured using mass (or volume).
2. % of the initial inventory this represents.
3. % of the inventory that has been removed/processed to date (since the inception of cleanup).

#### **4.2.3.1 Spent Nuclear Fuel Project**

##### **4.2.3.1.1 Project Description Summary**

This portion of the Spent Nuclear Fuel (SNF) Mission supports the Hanford Site Mission to clean up the Site by providing safe, economic, environmentally sound management of Site SNF in a manner which stages it to interim on-site storage, initiates interim storage, and deactivating the 100 K Area facilities. The SNF scope includes:

All the Hanford Site SNF, as defined in Hanford Spent Fuel Inventory Baseline,

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WHC-SD-SNF-TI-001, except irradiated fuel material classified otherwise by formal direction from RL. Sludge is considered SNF until removed from the K Basins.

K Basin facilities, associated operations, and equipment. This includes the basins, solid and particulate matter, water and associated basin and auxiliary support equipment and buildings, as well as N reactor and Single-Pass Reactor (SPR) fuel contained in the K Basins.

All the Hanford Site SNF stabilization, handling, and onsite transfer activities to achieve safe, interim storage. Retrieve all SNF at the K Basins for packaging, stabilization, and transportation to interim storage. Remove and transfer sludge and debris at the K Basins to disposition.

All new or modified Hanford Site SNF facilities (Cold Vacuum Drying (CVD), Canister Storage Building (CSB)) associated with receipt, stabilization and interim storage before staging for final disposition. Acquire SNF interim storage facilities. Operate interim storage facilities until the SNF from the K Basins is stored in a dry configuration.

Transfer and transport of SNF from custodian facilities to SNF facilities as identified in formal agreements with current fuel custodians. Manage and integrate activities associated with SNF from locations on the Hanford Site other than the K Basins, including the other SNF at the Hanford Site. Operating the complex which includes the CSB and 200 Area Interim Storage Area until the SNF from the K Basins is stored in a dry configuration..

Management and integration of activities at the 100 K Area until the SNF, debris, and sludge have been removed from the K Basins. Characterization of the SNF and sludge at the K Basins. Removal of the water at the K Basins until the SNF, sludge, and debris are removed.

Accomplishment of all SNF activities safely, efficiently, in compliance with applicable regulations, and with the involvement of stakeholders.

Deactivation of the K Basins and interim stabilization and storage facilities to a condition that meets requirements for transfer to the organization(s) responsible for final disposition of these facilities. Performance of activities that foster facility deactivation at no additional cost to SNF. Perform deactivation planning associated with existing and future SNF Project facilities.

#### **4.2.3.1.2 Life-Cycle Material and Waste Flow**

**Table 4-34 Spent Nuclear Fuel Project Waste/Material Flow (In)**

<b>Major Facility</b>	<b>Category</b>	<b>Period</b>	<b>Value</b>	<b>Units</b>
100 K Area Facilities	LLW (Liquid)	2000 - 2000	37.8	cubic meters
Canister Storage Building	Spent Nuclear Fuel (SNF)	2001 - 2003	2120	MTHM
200 Interim Storage Area (ISA)	Spent Nuclear Fuel (SNF)	2000 - 2013	13.6	MTHM

**Table 4-35 Spent Nuclear Fuel Project Waste/Material Flow (Out)**

<b>Major Facility</b>	<b>Category</b>	<b>Period</b>	<b>Value</b>	<b>Units</b>
100 K Area Facilities	CH LLMW I	2000 - 2006	35.2	cubic meters
	CH LLW I	2000 - 2006	861.0	cubic meters
	CH LLW III	2000 - 2000	8.76	cubic meters
	CH TRU	2000 - 2006	223.0	cubic meters
	HAZ	2000 - 2003	20.5	cubic meters
	LLW (Liquid)	2000 - 2003	28000	cubic meters

**Table 4-35 Spent Nuclear Fuel Project Waste/Material Flow (Out) (Continued)**

Major Facility	Category	Period	Value	Units
	RH TRU	2001 - 2006	46.9	cubic meters
	RH TRUM	2003 - 2004	611.0	cubic meters
	Spent Nuclear Fuel (SNF)	2001 - 2003	2100	MTHM
	Spent Nuclear Fuel (SNF)	2004 - 2005	612.0	cubic meters
	Waste Water	2001 - 2007	10900	cubic meters

#### 4.2.3.1.3 Facility Life-Cycle Requirements

- Requirements

- The SNF Project will transfer secondary waste streams generated by project activities (such as solid LLW, TRU solid waste, and liquid effluents) for storage or disposal on the Hanford Site.
- Remove sludge and debris from the K Basins for disposition with other Hanford Site wastes and materials.
- Spent Nuclear Fuel shall be removed from the K Basins.
- Sludge (50 to 70 m3) shall be removed from the K Basins. Sludge shall be considered SNF until it has been removed from the K Basins. Sludge that is removed from the K Basins by a sludge retrieval process shall be handled as mixed waste after removal from the basins.
- Debris shall be removed from the 100 K Area Facilities.
- Contaminated equipment shall be removed from the 100 K Area Facilities.
- Onsite interim safe, stable storage of nuclear materials shall be provided.
- Reactors on the River gaseous effluent releases shall be monitored.
- 100 K Area Facilities shall be surveilled and maintained within the approved safety envelope.
- CSB and MCOs shall be designed for a 40 year interim storage period.
- SNF shall be emplaced in the CSB for safe, cost effective interim storage until a federal repository is available (~40 years).
- Spent Nuclear Fuel removed from the K Basins shall be stabilized for cost effective, interim, dry, onsite storage.
- Spent Nuclear Fuel removed from the K Basins shall be packaged for cost effective, interim, dry, onsite storage.
- Accomplish fuel conditioning in accordance with project plans which currently include a cold-vacuum drying process, located in the 100K area. Construct the Cold-Vacuum Drying Facility and make it available for fuel transfer. Transfer the facility(s) to the Environmental Restoration Project for D&D on completion of operations.
- Water contained in the 100 K Area Facilities shall be treated to maintain water quality and safe conditions within the basins and to reduce tritium levels.
- The Contractor shall provide management and integration of activities required to reduce the risk from and the cost of spent fuel on the site. Several types of spent fuel are present at Hanford. The largest volume of material is the spent N-Reactor fuel currently stored in K Basins. Almost 7,500 canisters of fuel containing 2100 MT are stored at the 100-K Basins, approximately 3,800 of them in the KW Basin, and approximately 3,600 in the KE Basin.
- Complete, contingent on the completion of the National Environmental Policy Act (NEPA) documentation, the design and construction of the Canister Storage Building (CSB) to be used for dry storage of the K Basin spent fuel; take actions to make it operational, and operate the facility.

· POLLUTION PREVENTION/WASTE MINIMIZATION

The Contractor shall:

(1) Minimize pollution and the generation of wastes by implementing a DOE-approved pollution prevention and waste minimization program at the Hanford Site. This program shall ensure that waste generators will bear the disposal costs associated with their newly generated wastes. The program shall be designed within the Project Hanford structure, and address wastes which remain within the realm of a specific project in this structure, as well as wastes which move from one project to another. There shall be a mechanism to ensure that Pollution Prevention Opportunity Assessments are developed and fully considered.

(2) Develop this program using available data and resources to the extent practicable, including draft Pollution Prevention Program Integration Guidance, waste generation reports produced by the Office of Pollution Prevention within the Environmental Management program, and the "Sitewide Systems Analysis" required by milestone M-33 of the Tri-Party Agreement. Source reduction shall be first priority, followed by environmentally safe recycling. Treatment to reduce quantity, toxicity, and/or mobility will be considered only when prevention or recycling are not possible or practical. Environmentally safe disposal is the last option.

● Planning Assumptions

- Spent Fuel in Central Plateau - 1 Spent fuels consolidated in the 200 Area in safe, stable, cost-effective interim storage pending national decisions on their ultimate disposition.
- Facilities in Central Plateau - 2 Provide safe, stable, interim storage for nuclear materials in the 200 Area pending decisions on their ultimate disposition.
- Spent Fuel in South 600 Area - 1 Spent fuels (light water reactor) removed to interim storage in 400 Area pending availability of 200 Area interim storage.
- Facilities in South 600 Area - 7 Transfer Special Nuclear Material to 200 Area for interim storage.
- Nuclear materials shall be consolidated in the Central Plateau for interim storage pending ultimate disposition.
- Facilities under the stewardship of the Spent Nuclear Fuel Project shall be transitioned to a low cost, stable, deactivated condition.
- 100 K Area Facilities shall be stabilized and cleaned sufficient to transition to decontamination and decommissioning.
- Canister storage building shall be constructed.

**4.2.3.1.4 Project Safety Authorization Basis/NEPA and Permits**

The SNF Project shall manage all activities in accordance with approved Authorization Basis documents and approved S/RIDs. The following Authorization Basis documents, their associated safety evaluation reports, and S/RIDs apply.

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- "K Basins Safety Analysis Report," WHC-SD-SNF-WM-062, including the referenced "K Basin Hazard Categorization," WHC-SD-SNF-HC-001 (11/94), and any approved amendments thereto.
- "K Basins Technical Safety Requirements," WHC-SD-SNF-TSR-001, and any approved amendments thereto.
- All approved K Basins Safety Evaluation Reports
- Letter, J. D. Wagoner, RL to Mr. H. J. Hatch, President, Fluor Daniel Hanford, Inc. "Contract No. DE-AC06-96RL13200 - REMOVAL OF RESTRICTION REGARDING CRANE TROLLEY MOVEMENT," dated May 5, 1998 (98-SFD-089).
- Letter, J. D. Wagoner, RL, to Mr. H. J. Hatch, President, Fluor Daniel Hanford, Inc, "Contract No. DE-AC06-96RL13200 - APPROVAL OF K BASINS SAFETY ANALYSIS REPORT (SAR) WHC-SD-WM-SAR 062, REVISION (REV.) 3B AND K BASINS TECHNICAL SAFETY REQUIREMENTS (TSR) REV. 0-B," dated March 20, 1998 (98-SFD-063).
- Letter, J. D. Wagoner, RL, to Mr. R. D. Hanson, Acting President, Fluor Daniel Hanford, Inc, "Contract No. DE-AC06-96RL13200-Approval of Fuel Return Operations Using Chem Nuclear 1-13G Cask at the K East Basins South Load-Out Pit Evaluatons" dated August 25, 1998 (98-SFD-166).
- Letter, J. D. Wagoner, RL, to Mr. R. D. Hanson, Acting President, Fluor Daniel Hanford, Inc, "Contract No. DE-AC06-96RL13200-K Basins Safety Analysis Report (SAR) Annual Update," and attached Safety Evaluation Report (SER), dated September 18, 1998 (98-SFD-176).
- Letter, J. D. Wagoner, RL, to Mr. R. D. Hanson, Acting President, Fluor Daniel Hanford, Inc, "Contract No. DE-AC06-96RL13200-K Basins Safety Analysis Report (SAR) WHC-SD-WM-SAR-062, proposed Revision 3F, and K Basins Technical Safety Requirements (TSR) WHC-SD-SNF-TSR-001, proposed Revision 0-D, Drain Valve Unreviewed Safety Question (USQ) and Justification for Continued Operation (JCO)," and attached SER, dated September 18, 1998 (98-SFD-187).PAGE CHANGE K - 05/26/99
- Letter, J. D. Wagoner, RL, to Mr. R. D. Hanson, Acting President, Fluor Daniel Hanford, Inc, "Contract No. DE-AC06-96RL13200 -Replacement of Gaseous Chlorination System in 100K Area Potable Water System," and attached SER, dated September 30, 1998, (98-SFD-199).
- Letter, J. D. Wagoner, RL, to Mr. R. D. Hanson, President, Fluor Daniel Hanford Inc., "Contract No. DE-AC06-96RL13200 - Approval of Storage of Limited Amount of Fuel Material With Up To 1.25 Weight Percent (wt%) U235 Enrichland in the K-East (KE) Basin" and attached SER, dated October 30, 1998.
- Letter, K. A. Klein, RL, to Mr. R. D. Hanson, President, Fluor Daniel Hanford, Inc., "Contract No. DE-AC06-96RL13200 - Unreviewed Safety Question (USQ) Evaluation K-99-0280, Safety Analysis Report (SAR) Table 3-10 Loads and Loadout Pit Wall Separation" and attached SER, dated May 21, 1999 (99-SFD-131).

The SNF Project activities are subject to NEPA and shall comply with the NEPA ROD and equivalent CERCLA requirements. The following NEPA documents apply to the SNF Project.

- SNF K Basins Project Environmental Impact Statement Record of Decision (3/96).
- Environmental Permits obtained in the name of RL or FDH that include provisions applicable to SNF K Basins Project facilities and/or operations, including, but not limited to, permits issued under the authority of the Resource Conservation and Recovery Act, as amended; the Federal Water Pollution Control Act (Clean Water Act) as amended; the Toxic Substances Control Act, as amended; and the Clean Air Act, as amended.
- Comprehensive Environmental Response, Compensation, and Liability Act documents and Records of Decision that contain requirements applicable to SNF K Basins Project facilities



and/or operations.

- Resource Conservation and Recovery Act and Safe Drinking Water Act documents that contain requirements applicable to SNF K Basins Project facilities and/or operations.
- Voluntary compliance letters, notices of correction, notices of noncompliance, notices of violation, notices of penalty, administrative or consent orders, or other legal documents issued by an authorized agency delegated regulatory authority that contain requirements applicable to SNF Basins Project Facilities and/or operations, including subsequent approved revisions to referenced documents.

#### 4.2.3.1.5 Tri-Party Agreement Requirements

- TPA.M.34.0.A Complete removal of spent nuclear fuel, sludge, debris, and water at DOE's K Basins. (Due Date 07/31/07)
- TPA.M.34.6.T.1 Initiate K West spent nuclear fuel canister cleaning operations. (Due Date 12/31/00)
- TPA.M.34.8 Initiate full scale K East Basin sludge removal. (Due Date 07/31/04)
- TPA.M.34.9.T.1 Complete K Basins rack and canister removal. (Due Date 12/31/04)
- TPA.M.34.10 Complete sludge removal from K Basins. (Due Date 08/31/05)
- TPA.M.34.11.T.1 Complete construction of K West Basin integrated water treatment system to support spent nuclear fuel removal. (Due Date 06/30/99)
- TPA.M.34.12 Complete construction of K East Basin integrated water treatment system to support spent nuclear fuel removal. (Due Date 02/28/01)
- TPA.M.34.13.A.T.1 Complete construction and installation of K West Basin Spent Nuclear Fuel Retrieval System. (Due Date 07/31/99)
- TPA.M.34.13.B.T.1 Complete construction and installation of K East Basin Spent Nuclear Fuel Retrieval System. (Due Date 11/30/00)
- TPA.M.34.14.A Complete K West Cask Facility Modifications. (Due Date 09/30/99)
- TPA.M.34.14.B.T.1 Complete K East Cask Facility Modifications. (Due Date 01/31/01)
- TPA.M.34.15.A.T.1 Complete two bays of the Cold Vacuum Drying Facility construction and installation. (Due Date 10/31/99)
- TPA.M.34.15.B.T.1 Complete remaining bay(s) of the Cold Vacuum Drying Facility construction and installation. (Due Date 06/30/00)
- TPA.M.34.16 Initiate Removal of K West Basin Spent Nuclear Fuel. (Due Date 11/30/00)
- TPA.M.34.17 Initiate Removal of K East Basin Spent Nuclear Fuel. (Due Date 11/30/01)
- TPA.M.34.18.A Complete Removal of all K West Basin Spent Nuclear Fuel. (Due Date 04/30/03)
- TPA.M.34.18.B Complete Removal of all K East Basin Spent Nuclear Fuel. (Due Date 12/31/03)
- TPA.M.34.19 Initiate removal, replacement, and treatment of contaminated K Basins water where tritium concentrations exceed 300,000 pCi/L. (Due Date 04/30/04)
- TPA.M.34.20 Complete removal, replacement, and treatment of contaminated K Basins water such that tritium concentration in the basin is decreased and is maintained at or below 300,000 pCi/L. This milestone could be satisfied by removing all water. (Due Date 10/31/05)
- TPA.M.34.21 Initiate full scale K West Basin water removal. (Due Date 09/30/04)
- TPA.M.34.22 Complete K West Basin water removal. (Due Date 09/30/05)
- TPA.M.34.23 Initiate full scale K East Basin water removal. (Due Date 10/31/05)

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- TPA.M.34.24 Complete K East Basin water removal. (Due Date 10/31/06)
- TPA.M.90.11 Complete Canister Storage Facility Construction. [Due Date: 12/31/2002]

#### 4.2.3.1.6 Interfaces

**TABLE 4-36 Spent Nuclear Fuel Project Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Hazardous Waste Disposal Contracts	EXTERNAL	Receives K Basin HAZ waste
Solid Waste Storage & Disposal	RL-WM03	Receives K Basin Deactivation, CH LLMW I Receives K Basin Deactivation, CH TRU Receives K Basin Deactivation, CH-LLW-I Receives K Basin Deactivation, RH TRU Receives K Basins, CH-LLW-I Receives K OPER, CH-LLMW-I Receives K OPER, CH-LLW-III Receives K OPER, RH-TRU Receives K OPER, RH-TRUM Receives K Project, CH LLW I Receives K PROJECT, CH-TRU
Solid Waste Treatment	RL-WM04	Provides PWR Core 2 Shipment Provides TRIGA Fuel to 200 Area ISA Receives K-Basin Sludge
Liquid Effluents	RL-WM05	Receives K Basin Deactivation Wastewater Receives K Basin Level Control Water
Analytical Services	RL-WM06	Provides Analyzed K-Basin spent nuclear fuel samples Provides Bioassay and Dosimetry Services for SNF Receives Analytical Laboratory Samples from SNF Receives In-Field Laboratory Samples from SNF Receives Spent nuclear fuel analytical samples.
Canister Storage Building Operations	RL-WM02	Receives K Basin SNF Transferred to CSB Receives Spent Nuclear Fuel from FFTF
324/327 Facility Transition	RL-TP08	Provides 324 Spent Nuclear Fuel
Surveillance & Maintenance	RL-ER05	Receives Safe & Compliant Deactivated 100 K Area Facilities

#### 4.2.3.1.7 Requirements References

- DNFSBIP94-1, Defense Nuclear Facilities Safety Board, Implementation Plan 94-1"
- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"

#### 4.2.3.2 Canister Storage Building Operations

##### 4.2.3.2.1 Project Description Summary

The Canister Storage Building Operations (CSB Operations) portion of the Spent Nuclear Fuel

(SNF) mission supports the Hanford Site Mission to clean up the Site by providing safe, economic, environmentally sound management of Site SNF in a manner which continues interim storage on-site to final disposition, and deactivating the associated facilities. The CSB Operations scope includes:

All the Hanford Site SNF is defined in Hanford Spent Fuel Inventory Baseline, WHC-SD-SNF-TI-001, except irradiated fuel material classified otherwise by formal direction from RL.

All new or modified Hanford Site SNF facilities associated with interim storage to final disposition.

Management and integration of activities associated with SNF from locations on the Hanford Site in accordance with approved Memorandums of Understanding (MOUs) and Project Agreements (PAs). Operate the complex which includes the CSB and 200 Area Interim Storage Area.

Staging of the Hanford Site SNF for final disposition. This may include additional configuring and packaging of the SNF to meet final disposition requirements, readying it for off-site transfer, and implementing transfer to organization(s) responsible for final disposition.

Accomplishment of all SNF activities safely, efficiently, in compliance with applicable regulations, and with the involvement of stakeholders.

Deactivation of the CSB and 200 Area ISA facilities to a condition that meets requirements for transfer to the organization(s) responsible for final disposition of these facilities. Perform activities that foster facility deactivation at no additional cost to SNF. Perform deactivation planning associated with existing and future SNF facilities. Deactivation activities associated with existing and future SNF facilities.

#### 4.2.3.2.2 Life-Cycle Material and Waste Flow

**Table 4-37 Canister Storage Building Operations Waste/Material Flow (In)**

Major Facility	Category	Period	Value	Units
Canister Storage Building	Spent Nuclear Fuel (SNF)	2001 - 2003	2120	MTHM
200 Interim Storage Area (ISA)	Spent Nuclear Fuel (SNF)	2000 - 2013	13.3	MTHM

**Table 4-38 Canister Storage Building Operations Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
Canister Storage Building	Spent Nuclear Fuel (SNF)	2019 - 2040	2100	MTHM
200 Interim Storage Area (ISA)	Spent Nuclear Fuel (SNF)	2003 - 2018	29.4	MTHM

#### 4.2.3.2.3 Facility Life-Cycle Requirements

- Requirements

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- SNF to be shipped offsite for final disposition at the national repository
- Maintain the 200 Area ISA within the authorized safety basis and in accordance with approved S/RIDs.
- Na-bonded FFTF Spent Nuclear Fuel shall be shipped to Idaho National Environmental and Engineering Laboratory for treatment and final disposition in accordance with schedules established by the national SNF Program.
- Central Plateau gaseous effluent releases shall be monitored
- Manage site-wide SNF in accordance with existing, DOE approved, Memoranda of Understanding (MOU).
- Onsite interim safe, stable storage of nuclear materials shall be provided.
- CSB and MCOs shall be designed for a 40 year interim storage period.
- Spent Nuclear Fuel removed from the 100 K Area Facilities shall be placed into cost effective, interim, dry, storage pending shipment to a federal repository (approximately 40 years).
- SNF shall be emplaced in the CSB for safe, cost effective interim storage until a federal repository is available (~40 years).
- Complete, contingent on the completion of the National Environmental Policy Act (NEPA) documentation, the design and construction of the Canister Storage Building (CSB) to be used for dry storage of the K Basin spent fuel; take actions to make it operational, and operate the facility.
- The Canister Storage Building shall be maintained in a safe and compliant mode until turnover to the D&D Phase as described in the CSB Closure Plan (TBD).
- The Canister Storage Building shall perform the activities necessary to place the system components into a safe, stable and environmentally sound condition pending final disposition as described in the CSB Closure Plan (TBD).
- The Canister Storage Building shall comply with the design criteria of ANSI N300-1975, Design Criteria for Decommission of Nuclear Fuel Reprocessing Plants. At the completion of its Operational Mission, the Canister Storage Building shall provide for decontamination of its system components and soils as described in the CSB Closure Plan (TBD).

- Planning Assumptions

- Spent Fuel in Central Plateau - 2 Spent fuels removed offsite for final disposition.
- Spent Fuel in South 600 Area - 2 Spent fuels (TRIGA and light water reactor) and applicable FFTF fuels removed from 400 interim storage area to 200 Area.
- Spent Fuel in South 600 Area - 3 Spent fuels (sodium-bonded EBR-II test assemblies) removed offsite for final disposition.
- Central Plateau high cost surplus facilities shall be transitioned to a low cost, stable, deactivated condition
- Central Plateau facilities other than processing facilities shall be dismantled.
- Facilities other than processing facilities shall be dismantled.
- Nuclear materials shall be consolidated in the Central Plateau for interim storage pending ultimate disposition.
- Transitioned facilities shall be decontaminated and decommissioned sufficiently to enable removal or closure through entombment
- Spent Nuclear Fuel removed from 100 K Area Facilities shall be shipped offsite for disposal in a national repository.
- Site Wide Spent Nuclear Fuel shall be shipped offsite for disposal in a national repository.

#### **4.2.3.2.4 Project Safety Authorization Basis/NEPA and Permits**

The SNF Project shall manage all activities in accordance with approved Authorization Basis documents and approved S/RIDs. The existing Authorization Basis documents for the Project will be amended appropriately for CSB Operations (WM-02) activities.

The SNF Project activities are subject to NEPA and shall comply with the NEPA ROD and equivalent CERCLA requirements. The following NEPA documents apply to the SNF Project, as amended, for Canister Storage Building Operations (RL-WM02) specific activities:

- Environmental Permits obtained in the name of RL or FDH that include provisions applicable to SNF Project facilities and/or operations, including but not limited to, permits issued under the authority of the Resource Conservation and Recovery Act, as amended; the Federal Water Pollution Control Act (Clean Water Act) as amended; the Toxic Substance Control Act, as amended; and the Clean Air Act, as amended.
- Comprehensive Environmental Response, Compensation, and Liability Act documents and Records of Decision that contain requirements applicable to SNF Project facilities and/or operations.
- Resource Conservation and Recovery Act and Safe Drinking Water Act documents that contain requirements applicable to SNF Project facilities and/or operations.
- Voluntary compliance letters, notices of correction, notices of noncompliance, notices of violation, notices of penalty, administrative or consent orders, or other legal documents issued by an authorized agency delegated regulatory authority that contain requirements applicable to SNF Project facilities and/or operations, including subsequent approved revisions to referenced documents.

#### **4.2.3.2.5 Tri-Party Agreement Requirements**

- None

#### **4.2.3.2.6 Interfaces**

**TABLE 4-39 Canister Storage Building Operations Interfaces**

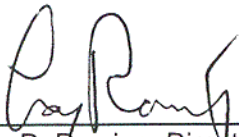
<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
National Geologic Repository	EXTERNAL	Receives Dispositioned Non-Defense Production Reactor SNF Receives Dispositioned Defense Production Reactor SNF
Idaho National Engineering Laboratory	EXTERNAL	Receives Sodium (Na) Bonded FFTF SNF
Immobilized Tank Waste Storage & Disposal	RL-TW09	Provides Excess Canister Storage Building
Solid Waste Treatment	RL-WM04	Provides PWR Core 2 Shipment Provides TRIGA Fuel to 200 Area ISA
Spent Nuclear Fuel Project	RL-WM01	Provides K Basin SNF Transferred to CSB Provides Spent Nuclear Fuel from FFTF
324/327 Facility Transition	RL-TP08	Provides 324 Spent Nuclear Fuel
ER Disposal Facility (ERDF)	RL-ER04	Receives Rubble from the 200 Area Interim Storage Facility Demolition Receives Rubble from the CSB Demolition

#### **4.2.3.2.7 Requirements References**

- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-96-92, Hanford Strategic Plan"
- HNF-SD-WM-MAR-008, Rev. 3, Tank Waste Remediation System Mission Analysis (TWRS MAR)"

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Concurrence:

  
\_\_\_\_\_  
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Richland Operations Office

Approved by:

  
\_\_\_\_\_  
P. M. Knollmeyer  
Assistant Manager for  
Facility Transition,  
U.S. Department of Energy,  
Richland Operations Office

#### 4.2.4 FSP Project

The primary Facility Stabilization Project (FSP) mission is to deactivate contaminated facilities on the Hanford Site, in preparation for Decontamination and Decommissioning (D&D), and to provide safe and secure storage of Special Nuclear Material (SNM), Nuclear Material (NM), and Nuclear Fuel (NF) until these materials can be transferred to another facility, sold, or dispositioned.

The FSP mission includes providing minimum safe surveillance and maintenance of facilities on the Hanford Site to reduce risks to workers, the public and environment, until they are transitioned to a low cost, long term surveillance and maintenance (S&M) state. Facility Stabilization will protect the health and safety of the public and our workers, protect the environment, and provide beneficial use of the facilities and other resources where it makes sense to do so. Work will be in accordance with the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), local, national, international and other agreements, and in compliance with all applicable Federal, state, and local laws. The stakeholders will be active participants in the decision processes including establishing priorities, and in developing a consistent set of rules, regulations, and laws. Work will be leveraged with a view of providing positive, lasting economic impact in the region.

The primary FSP objectives include the following.

- Develop detailed facility deactivation plans, end point criteria, and regulatory documentation.
- Achieve compliance with Environmental, Safety, and Health (ES&H) codes and standards during deactivation and establish a passively safe and environmentally secure configuration that is easily maintained until final D&D.
- Implement cost-effective, innovative approaches to ensure the required safety envelope is defined and maintained during deactivation.
- Achieve deactivation of facilities for transfer to the Environmental Restoration (ER) Program, using Plutonium/Uranium Extraction (PUREX) plant deactivation as a model for future facility deactivation.
- Apply lessons learned on other deactivation projects.
- Reduce the annual S&M cost by a factor of ten after completion of deactivation.
- Complete deactivation and turnover of subprojects within approved baseline schedules.
- Protect the health and safety of the public, workers, and environment.
- Seek beneficial uses for facilities, equipment, and materials (all types) and resources.
- Consolidate SNM/NM/NF to the maximum extent practical.
- Manage nuclear materials in a safe and secure condition and where appropriate, in accordance with International Atomic Energy Agency (IAEA) safeguards rules.
- Treat nuclear materials as necessary, and store onsite in long-term interim safe storage awaiting a final disposition decision by U.S. Department of Energy (DOE).
- Implement nuclear materials disposition directives. In the near term these are anticipated to mostly involve transferring uranium to other locations for beneficial use.
- Conduct work in accordance with the Tri-Party Agreement; local, national, international, and other agreements; and in compliance with all applicable federal, state, and local laws.
- Involve stakeholders in the decision processes including establishing priorities, and in



developing a consistent set of rules, regulations, and laws.

- Leverage work with a view of providing positive, lasting economic impact in the region.

Section 8 of the Tri-Party Agreement describes the facility decommissioning process and divides it into three main phases. The three phases are transition, surveillance, and maintenance and disposition. The FSP is typically responsible for the transition phase when dealing with contaminated facilities.

The transition to deactivation will be accomplished through a phased approach, while maintaining the facilities in a safe and compliant configuration. In addition, Facility Stabilization will continue to maintain safe long-term storage facilities for SNM, NM, and NF.

The FSP shall use guidance contained in WHC-SD-CP-MAR-003, Mission Analysis Report: Deactivation Facilities at Hanford (Lund 1996), the Hanford Excess Facility Management Plan, and the U.S. Department of Energy, Office of Environmental Management, Office of Nuclear Material and Facility Stabilization Material Stabilization and Facility Deactivation Project Policies and Supplemental Information as a basis for planning and executing subprojects.

The management of SNM/NM/NF (including irradiated and nonirradiated) shall include the receiving, handling, processing, storing, and transfer for ultimate disposition of these materials in a safe, efficient, and environmentally responsible manner. Materials included are Pu (and highly enriched uranium [HEU]) as inventoried, Spent Nuclear Fuel (SNF), Cs/Sr capsules, thorium (Th), and miscellaneous actinides such as neptunium and californium, nuclear standards and sources, and uranium (depleted, naturally occurring, and low-enriched).

#### **4.2.4.a Project Structure**

- B-Plant (RL-TP01)
- WESF (RL-TP02)
- PUREX (RL-TP03)
- 300 Area/SNM (RL-TP04)
- PFP (RL-TP05)
- Transition Project Management (RL-TP12)
- Accelerated Deactivation (RL-TP10)
- 324/327 Facility Transition (RL-TP08)
- Hanford Surplus Facility Prog 300A Revitalization (RL-TP14)

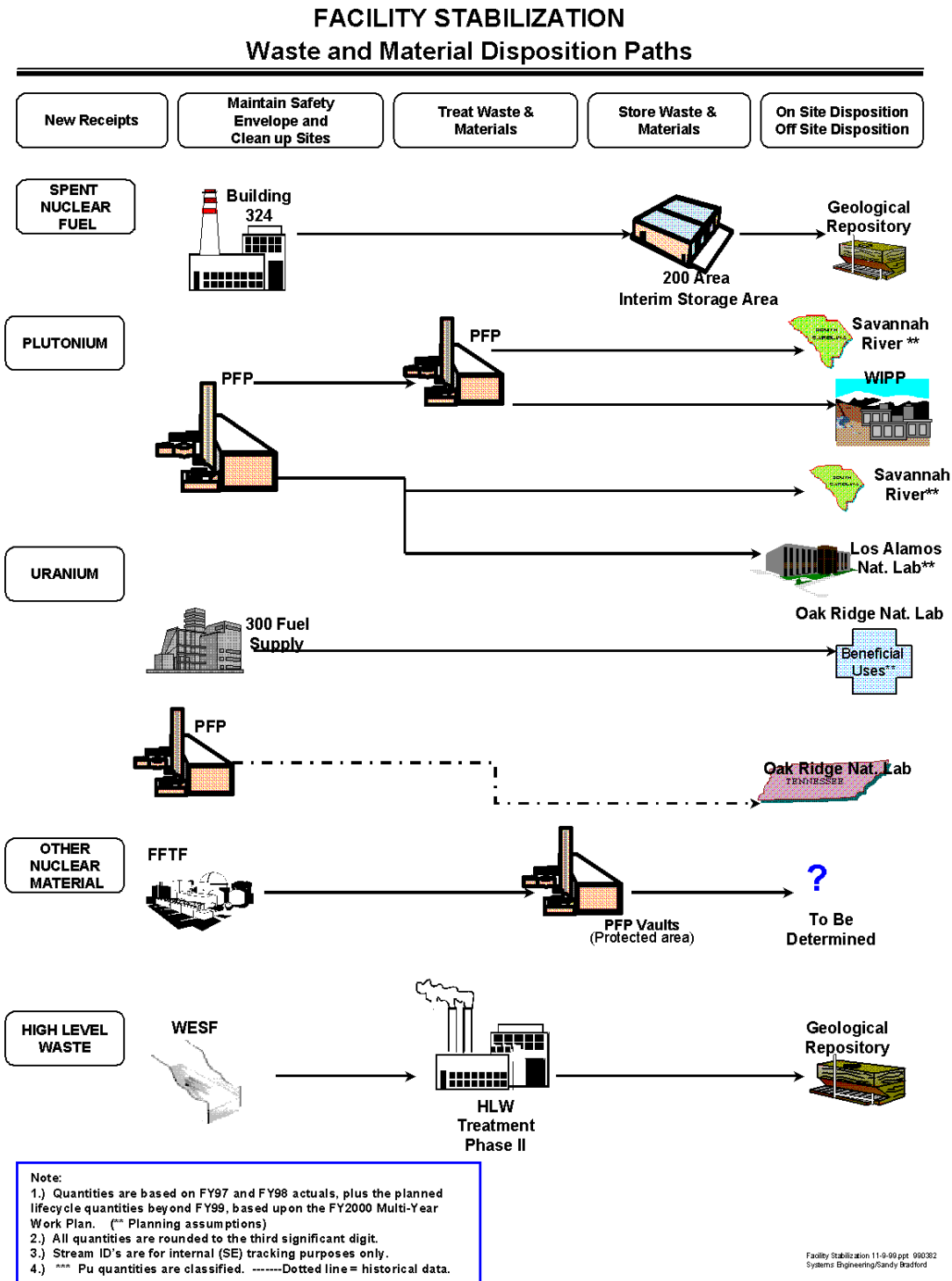
#### **4.2.4.b Hanford Strategic Plan Goals**

The Waste, Material, and Geographic Area Goals contained in the Hanford Strategic Plan (DOE/RL-96-92), represent planning assumptions around which the Hanford Environmental Management effort is structured. Each Mission Area and Project partially support each of these goals, per scope of work described in the Prime Contracts. As an aggregate, all Mission Areas and Projects will fulfill the requirements of the Hanford Strategic Plan. As such, the Goals identified in this section cover only the goals directly supported by that specific Mission Area. Further details are contained in the Project planning documents. As records-of-decision are issued, these Goals will be amended in future revisions of the Hanford Strategic Plan.

- The 200 Areas and central plateau will be used for the management of nuclear materials and the collection and disposal of waste materials that remain onsite and for other related and compatible uses. Cleanup levels and disposal standards will be established that are consistent with these long-term uses.
- The 300 Area waste sites, materials and facilities will be remediated to allow industrial and economic diversification opportunities. The Federal government will retain ownership of land in and adjacent to the 300 and 400 Areas, but will lease land for private and public uses to support regional industrial and economic development. Excess land within the 1100 Area will be targeted for transition to non-Federal ownership.
- Safe, stable, secure onsite storage will be provided for all nuclear materials pending decisions on final disposition or until beneficial offsite uses are identified. Facilities without identified future uses will be transitioned to low-cost, stable deactivated conditions (requiring minimal surveillance and maintenance) pending eventual D&D and removal or closure.
- Spent nuclear fuels will be prepared and packaged as necessary for interim, dry storage onsite, and shipped offsite for disposal in a national repository.

#### **4.2.4.c Technical Logic**

Figure 4-5 Facility Stabilization Material/Flow Logic



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**4.2.4.d Facility Life-Cycle Responsibility Assignments**

**Table 4-40 Facility Stabilization Facility Life-Cycle Responsibility Assignments**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
<b>100-DR Reactor</b>	RL-ER10						RL-ER06
1720DR	RL-ER10					RL-TP10	RL-ER06
<b>CP Soil Site Operable Units</b>	RL-ER10					RL-ER02 RL-ER05	RL-ER02 RL-ER07
209E						RL-TP10	RL-ER06
242S					RL-TW03	RL-TP10	RL-TW04
242T					RL-TW03	RL-TP10	RL-TW04
2713W					RL-TW03	RL-TP10	RL-TW04
<b>200 LEF</b>	RL-WM05				RL-WM05		RL-ER02 RL-ER06
242-A Evaporator	RL-WM05				RL-WM05	RL-ER05 RL-TP10	RL-ER06 RL-ER07
242A	RL-WM05				RL-WM05	RL-TP10 RL-TP13	RL-ER06 RL-TP13
242AB	RL-WM05				RL-WM05	RL-TP10 RL-TP13	RL-ER06 RL-TP13
Liquid Effluent Retention Facility	RL-WM05				RL-WM05	RL-ER05 RL-TP10	RL-ER06 RL-ER07
242AL-42	RL-WM05				RL-WM05	RL-TP10	RL-ER06
242AL-43	RL-WM05				RL-WM05	RL-TP10	RL-ER06
242AL-44	RL-WM05				RL-WM05	RL-TP10	RL-ER06
242AL11	RL-WM05				RL-WM05	RL-TP10	RL-ER06
200 Area Effluent Treatment Facility	RL-WM05				RL-WM05	RL-ER05 RL-TP10	RL-ER06 RL-ER07
2025E	RL-WM05				RL-WM05	RL-TP10	RL-ER06
2025EC	RL-WM05				RL-WM05	RL-TP10	RL-ER06
2025EC71	RL-WM05				RL-WM05	RL-TP10	RL-ER06
225W	RL-WM05				RL-WM05	RL-TP10	RL-ER06
<b>PUREX</b>	RL-TP03					RL-ER05 RL-TP03	RL-ER06 RL-ER07
202A	RL-TP03					RL-TP03	RL-ER06
203A	RL-TP03					RL-TP03	RL-ER06
204A	RL-TP03					RL-TP03	RL-ER06
205A	RL-TP03					RL-TP03	RL-ER06
206A	RL-TP03					RL-TP03	RL-ER06
210A	RL-TP03					RL-TP03	RL-ER06
211A	RL-TP03					RL-TP03	RL-ER06
212A	RL-TP03					RL-TP03	RL-ER06
213A	RL-TP03					RL-TP03	RL-ER06
215A	RL-TP03					RL-TP03	RL-ER06
214A	RL-TP03					RL-TP03	RL-ER06
216A	RL-TP03					RL-TP03	RL-ER06
218E14	RL-TP03					RL-TP03	RL-ER06
218E15	RL-TP10					RL-TP10	RL-ER06
225EC	RL-TP03				RL-WM05	RL-TP13	RL-TP13
245A	RL-TP03					RL-TP03	RL-ER06
2701AB	RL-TP03					RL-TP03	RL-ER06
2701AC	RL-TP03					RL-TP03	RL-ER06
271A	RL-TP03					RL-TP03	RL-ER06
2711A	RL-TP03					RL-TP03	
2712A	RL-TP03					RL-TP03	RL-ER06
2716A	RL-TP03					RL-TP03	RL-ER06
2714A	RL-TP03					RL-TP03	RL-ER06
271AB	RL-TP03					RL-TP03	RL-ER06
276A	RL-TP03					RL-TP03	RL-ER06
281A	RL-TP03					RL-TP03	RL-ER06
291A	RL-TP03					RL-TP03	RL-ER06
291AB	RL-TP03					RL-TP03	RL-ER06
291AC	RL-TP03					RL-TP03	RL-ER06
291AD	RL-TP03					RL-TP03	RL-ER06

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**Table 4-40 Facility Stabilization Facility Life-Cycle Responsibility Assignments  
(Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
291AE	RL-TP03					RL-TP03	RL-ER06
291AG	RL-TP03					RL-TP03	RL-ER06
291AH	RL-TP03					RL-TP03	RL-ER06
291AJ	RL-TP03					RL-TP03	RL-ER06
291AK	RL-TP03					RL-TP03	RL-ER06
292AA	RL-TP03					RL-TP03	RL-ER06
292AB	RL-TP03					RL-TP03	RL-ER06
293A	RL-TP03					RL-TP03	RL-ER06
294A	RL-TP03					RL-TP03	RL-ER06
295A	RL-TP03					RL-TP03	RL-ER06
295A1	RL-TP03					RL-TP03	RL-ER06
295A2	RL-TP03					RL-TP03	RL-ER06
295AA	RL-TP03					RL-TP03	RL-ER06
295AB	RL-TP03					RL-TP03	RL-ER06
295AC	RL-TP03					RL-TP03	RL-ER06
295AD	RL-TP03					RL-TP03	RL-ER06
295AE	RL-TP03					RL-TP03	RL-ER06
217A	RL-TP03					RL-TP03	RL-ER06
252AB	RL-TP03					RL-TP03	RL-ER06
293AA	RL-TP03					RL-TP03	RL-ER06
<b>B Plant</b>	RL-TP01					RL-ER05 RL-TP01	RL-ER06 RL-ER07
207B	RL-TP01						RL-ER06
207BA	RL-TP01						RL-ER06
211B	RL-TP01					RL-TP01	RL-ER06
211BB	RL-TP01					RL-TP01	RL-ER06
212B	RL-TP01					RL-TP01	RL-ER06
217B	RL-TP01						RL-ER06
221B	RL-TP01					RL-TP01	RL-ER06
221BA	RL-TP01						RL-ER06
221BB	RL-TP01					RL-TP01	RL-ER06
221BC	RL-TP01					RL-TP01	RL-ER06
221BD	RL-TP01					RL-TP01	RL-ER06
221BE	RL-TP01					RL-TP01	RL-ER06
221BF	RL-TP01					RL-TP01	RL-ER06
221BG	RL-TP01						RL-ER06
222B	RL-TP01					RL-TP01	RL-ER06
2711B	RL-TP01					RL-TP01	RL-ER06
2715B	RL-TP01						RL-ER06
2716B	RL-TP01					RL-TP01	RL-ER06
271B	RL-TP01					RL-TP01	RL-ER06
271BA	RL-TP01						RL-ER06
276B	RL-TP01					RL-TP01	RL-ER06
291B	RL-TP01					RL-TP01	RL-ER06
291BA	RL-TP01					RL-TP01	RL-ER06
291BB	RL-TP01					RL-TP01	RL-ER06
291BC	RL-TP01					RL-TP01	RL-ER06
291BD	RL-TP01					RL-TP01	RL-ER06
291BF	RL-TP01					RL-TP01	RL-ER06
291BG	RL-TP01					RL-TP01	RL-ER06
291BH	RL-TP01					RL-TP01	RL-ER06
291BJ	RL-TP01						RL-ER06
291BK	RL-TP01					RL-TP01	RL-ER06
292B	RL-TP01					RL-TP01	RL-ER06
219B	RL-TP01					RL-TP01	RL-ER06
291BE	RL-TP01					RL-TP01	RL-ER06
<b>WESF</b>	RL-TP02				RL-TP02	RL-ER05 RL-TP02	RL-ER06 RL-ER07
218B	RL-TP02				RL-TP02	RL-TP02	RL-ER06
225B	RL-TP02				RL-TP02	RL-TP02	RL-ER06
225BA	RL-TP02				RL-TP02	RL-TP02	RL-ER06
225BB	RL-TP02				RL-TP02	RL-TP02	RL-ER06
225BC	RL-TP02				RL-TP02	RL-TP02	RL-ER06
225BD	RL-TP02				RL-TP02	RL-TP02	RL-ER06
225BE	RL-TP02				RL-TP02	RL-TP02	RL-ER06
225BG	RL-TP02				RL-TP02	RL-TP02	RL-ER06

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**Table 4-40 Facility Stabilization Facility Life-Cycle Responsibility Assignments  
(Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
225BF	RL-TP02				RL-TP02	RL-TP02	RL-ER06
282B	RL-TP02				RL-TP02	RL-TP02	RL-ER06
282BA	RL-TP02				RL-TP02	RL-TP02	RL-ER06
294B	RL-TP02				RL-TP02	RL-TP02	RL-ER06
211BA	RL-TP02				RL-TP02	RL-TP02	RL-ER06
272B	RL-TP02				RL-TP02	RL-TP02	RL-ER06
272BA	RL-TP02				RL-TP02	RL-TP02	RL-ER06
272BB	RL-TP02				RL-TP02	RL-TP02	RL-ER06
PFP	RL-TP05					RL-ER05 RL-TP05	RL-ER06 RL-ER07 RL-TP05
216Z9A	RL-TP05					RL-TP05	RL-ER06
216Z9B	RL-TP05					RL-TP05	RL-ER06
216Z9C	RL-TP05					RL-TP05	RL-ER06
225WC	RL-TP05					RL-TP05	RL-ER06
231Z	RL-TP05 RL-TP10					RL-TP10	RL-ER06
232Z	RL-TP05					RL-TP05	RL-ER06
234-5Z	RL-TP05					RL-TP05	RL-ER06
234-5Z-BA	RL-TP05 RL-TP13				RL-I111	RL-TP13	RL-ER06
234-5ZA	RL-TP05					RL-TP05	RL-ER06
234ZB	RL-TP05					RL-TP05	RL-ER06
234ZC	RL-TP05					RL-TP05	RL-ER06
236Z	RL-TP05					RL-TP05	RL-ER06
241Z	RL-TP05					RL-TP05	RL-ER06
241ZA	RL-TP05					RL-TP05	RL-ER06
241ZB	RL-TP05					RL-TP05	RL-ER06
241ZG	RL-TP05					RL-TP05	RL-ER06
241ZRB	RL-TP05					RL-TP05	RL-ER06
242Z	RL-TP05					RL-TP05	RL-ER06
243Z	RL-TP05					RL-TP05	RL-ER06
243ZA	RL-TP05					RL-TP05	RL-ER06
243ZB	RL-TP05					RL-TP05	RL-ER06
267Z	RL-TP05					RL-TP05	RL-ER06
2701ZA	RL-TP05					RL-TP05	RL-ER06
2701ZB	RL-TP05					RL-TP05	RL-ER06
2701ZD	RL-TP05					RL-TP05	RL-ER06
2702Z	RL-TP05					RL-TP05	RL-ER06
2704Z	RL-TP05					RL-TP05	RL-ER06
2705Z	RL-TP05					RL-TP05	RL-ER06
270Z	RL-TP05					RL-TP05	RL-ER06
2712Z	RL-TP05					RL-TP05	RL-ER06
2715Z	RL-TP05					RL-TP05	RL-ER06
2715ZL	RL-TP05					RL-TP05	RL-ER06
2721Z	RL-TP05					RL-TP05	RL-ER06
2722Z	RL-TP05					RL-TP05	RL-ER06
2725Z	RL-TP05					RL-TP05	RL-ER06
2727Z	RL-TP05					RL-TP05	RL-ER06
2729Z	RL-TP05					RL-TP05	RL-ER06
2731Z	RL-TP05					RL-TP05	RL-ER06
2731ZA	RL-TP05					RL-TP05	RL-ER06
2734Z	RL-TP05					RL-TP05	RL-ER06
2734ZA	RL-TP05					RL-TP05	RL-ER06
2734ZB	RL-TP05					RL-TP05	RL-ER06
2734ZC	RL-TP05					RL-TP05	RL-ER06
2734ZD	RL-TP05					RL-TP05	RL-ER06
2734ZF	RL-TP05					RL-TP05	RL-ER06
2734ZG	RL-TP05					RL-TP05	RL-ER06
2734ZH	RL-TP05					RL-TP05	RL-ER06
2734ZJ	RL-TP05					RL-TP05	RL-ER06
2734ZK	RL-TP05					RL-TP05	RL-ER06
2734ZL	RL-TP05					RL-TP05	RL-ER06
2735Z	RL-TP05					RL-TP05	RL-ER06
2736Z	RL-TP05					RL-TP05	RL-ER06
2736ZA	RL-TP05					RL-TP05	RL-ER06

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**Table 4-40 Facility Stabilization Facility Life-Cycle Responsibility Assignments  
(Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
2736ZB	RL-TP05					RL-TP05	RL-ER06
2736ZC	RL-TP05					RL-TP05	RL-ER06
2736ZD	RL-TP05					RL-TP05	RL-ER06
2902Z	RL-TP05					RL-TP05	RL-ER06
2904ZA	RL-TP05					RL-TP05	RL-ER06
2904ZB	RL-TP05					RL-TP05	RL-ER06
291Z	RL-TP05					RL-TP05	RL-ER06
291Z1	RL-TP05					RL-TP05	RL-ER06
MO014	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO428	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO429	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO432	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO834	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO839	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
<b>U Plant</b>	RL-ER02						RL-ER06 RL-ER07
222U	RL-ER02					RL-TP10	RL-ER06
2714U	RL-ER02					RL-TP03	RL-ER06
<b>T-Plant Canyon Facility</b>	RL-WM04				RL-WM04	RL-ER05 RL-TP10	RL-ER06 RL-ER07
211T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
211T52	RL-WM04				RL-WM04	RL-TP10	RL-ER06
214T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
222T	RL-WM04					RL-TP10	RL-ER06
221T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
221TA	RL-WM04				RL-WM04	RL-TP10	RL-ER06
221TB	RL-WM04				RL-WM04	RL-TP10	RL-ER06
225WA	RL-WM04				RL-WM04	RL-TP10	RL-ER06
231T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2715T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2716T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
271T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
277T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
291T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
292T	RL-WM04				RL-WM04	RL-TP10	RL-ER06
<b>2706T Facility</b>	RL-WM04				RL-WM04	RL-ER05 RL-TP10	RL-ER06 RL-ER07
2706TA	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2706TB	RL-WM04				RL-WM04	RL-TP10	RL-ER06
<b>M-91 Facility</b>	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-TP10	RL-ER06
Low-Level Mixed Waste Stabilization Contract	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-TP10	RL-ER06
Thermal Treatment Contract	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-WM04	RL-TP10	RL-ER06
<b>WRAP</b>	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2336W	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2740W	RL-WM04				RL-WM04	RL-TP10	RL-ER06
2620W	RL-WM04				RL-WM04	RL-TP10	RL-ER06
218W5252	RL-WM04				RL-WM04	RL-TP10	RL-ER06
218W5252A	RL-WM04				RL-WM04	RL-TP10	RL-ER06
<b>Tank Farm System</b>					RL-TW01 RL-TW02 RL-TW03 RL-TW04	RL-TW03	RL-TW04
<b>Solid Waste Storage</b>	RL-WM03				RL-WM03	RL-TP10 RL-WM03	RL-ER06
2727W	RL-WM03				RL-WM03	RL-TP10	RL-ER06
Transuranic Storage and Assay Facility	RL-TP10					RL-ER05 RL-TP10	RL-ER06 RL-ER07
224T	RL-TP10					RL-TP10	RL-ER06

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**Table 4-40 Facility Stabilization Facility Life-Cycle Responsibility Assignments  
(Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
<b>222-S Laboratory</b>	RL-WM06				RL-WM06	RL-ER05 RL-TP10	RL-ER06 RL-ER07
207SL	RL-WM06				RL-WM06	RL-TP10	RL-ER06
212S/213S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
219S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SA	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SB	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SC	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SD	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SE	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SF	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SG	RL-WM06				RL-WM06	RL-TP10	RL-ER06
222SH	RL-WM06				RL-WM06	RL-TP10	RL-ER06
225WB	RL-WM06				RL-WM06	RL-TP10	RL-ER06
2716S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
2734S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
272S	RL-WM06				RL-WM06	RL-TP10	RL-ER06
<b>WSCF</b>	RL-WM06				RL-WM06	RL-ER06	RL-ER06 RL-ER07
6266	RL-WM06				RL-WM06	RL-TP10	RL-ER06
6266B	RL-WM06				RL-WM06	RL-TP10	RL-ER06
6266A	RL-WM06				RL-WM06	RL-TP10	RL-ER06
6267	RL-WM06				RL-WM06	RL-TP10	RL-ER06
<b>300 Area Fuel Supply System</b>	RL-TP04					RL-ER05 RL-TP04	RL-ER06 RL-ER07
303B	RL-TP04					RL-TP04	RL-ER06
303A	RL-TP04					RL-TP04	RL-ER06
303E	RL-TP04					RL-TP04	RL-ER06
303F	RL-TP04					RL-TP04	RL-ER06
303G	RL-TP04					RL-TP04	RL-ER06
303K	RL-TP04					RL-TP04	RL-ER06
303M	RL-TP04					RL-TP04	RL-ER06
304/304A	RL-TP04					RL-TP04	RL-ER06
313	RL-TP04					RL-TP04	RL-ER06
333	RL-TP04					RL-TP04	RL-ER06
334	RL-TP04					RL-TP04	RL-ER06
334A	RL-TP04					RL-TP04	RL-ER06
3707G	RL-TP04					RL-TP04	RL-ER06
3712	RL-TP04					RL-TP04	RL-ER06
3716	RL-TP04					RL-TP04	RL-ER06
MO052	RL-TP04 RL-TP13				RL-TP04	RL-TP13	RL-ER06
<b>NE Legacy Facilities</b>	RL-TP11					RL-TP11	RL-ER05
335 Sodium Test Facility	RL-TP11					RL-TP11 RL-TP14	RL-ER05
337B	RL-TP11					RL-TP11 RL-TP14	RL-ER05
3718M	RL-TP11					RL-TP11 RL-TP14	RL-ER05
<b>324 Facility</b>	RL-TP08					RL-ER05 RL-TP08	RL-ER06 RL-ER07
324	RL-TP08					RL-TP08	RL-ER06
324A	RL-TP08					RL-TP08	RL-ER06
324BA	RL-I111 RL-TP08				RL-I111	RL-I111	RL-I111
324D	RL-TP08					RL-TP08	RL-ER06
3718E	RL-TP08					RL-TP08	RL-ER06
3718G	RL-TP08				RL-TP08	RL-TP08	RL-ER06
<b>325 Facility</b>	RL-ST01				RL-ST01	RL-ER05 RL-TP14	RL-ER06 RL-ER07
325BA	RL-I111 RL-TP14				RL-I111	RL-I111	RL-I111
<b>326 Facility</b>	RL-ST01				RL-ST01	RL-ER05 RL-TP14	RL-ER06 RL-ER07



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**Table 4-40 Facility Stabilization Facility Life-Cycle Responsibility Assignments  
(Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
<b>327 Facility</b>	RL-TP08					RL-ER05 RL-TP08	RL-ER06 RL-ER07
327	RL-TP08					RL-ER05 RL-TP08	RL-ER06 RL-ER07
3723	RL-TP08					RL-TP08	RL-ER06
<b>329 Facility</b>	RL-ST01				RL-ST01	RL-ER05 RL-TP14	RL-ER06 RL-ER07
<b>306W</b>	RL-ST01				RL-ST01	RL-ER05 RL-TP14	RL-ER06 RL-ER07
<b>Misc Radiological Facilities</b>	RL-ST01 RL-TP14				RL-ST01	RL-ER05 RL-TP14	RL-ER06 RL-ER07
2718E	RL-ST01				RL-ST01	RL-TP10	RL-ER06
303C	RL-ST01				RL-ST01	RL-TP14	RL-ER06
305B	RL-ST01				RL-ST01	RL-TP14	RL-ER03
306E	RL-OT01				Cogema	RL-TP14	RL-TP13
314	RL-ST01					RL-TP14	RL-ER06
314B	RL-ST01				RL-ST01	RL-TP14	RL-ER06
318	RL-ST01				RL-ST01	RL-TP14	RL-ER06 RL-ER07
320	RL-ST01				RL-ST01	RL-ER05 RL-TP14	RL-ER06 RL-ER07
<b>321 Facility</b>						RL-TP14	RL-ER06
321						RL-TP14	RL-ER06
321B						RL-TP14	RL-ER06
321C						RL-TP14	RL-ER06
321D						RL-TP14	RL-ER06
323	RL-ST01				RL-ST01	RL-TP14	RL-ER06
3706						RL-TP14	RL-ER06
3706A						RL-TP14	RL-ER06
3708	RL-ST01				RL-ST01	RL-TP14	RL-ER06
3720	RL-ST01				RL-ST01	RL-TP14	RL-ER06
3730	RL-ST01				RL-ST01	RL-TP14	RL-ER06
3731A	RL-ST01					RL-TP14	RL-ER03
3745	RL-ST01				RL-ST01	RL-TP14	RL-ER06
3745B	RL-ST01				RL-ST01	RL-TP14	RL-ER06
3746A						RL-TP14	RL-ER06
377						RL-TP14	RL-ER06
<b>331 Facility</b>	RL-ST01				RL-ST01	RL-ER05 RL-TP14	RL-ER06 RL-ER07
331	RL-ST01				RL-ST01	RL-TP14	RL-ER06
331B	RL-ST01					RL-TP14	RL-ER06
331C	RL-ST01				RL-ST01	RL-TP14	RL-ER06
331D	RL-ST01				RL-ST01	RL-TP14	RL-ER06
331 Dog Run	RL-ST01					RL-TP14	RL-ER06
331G	RL-ST01				RL-ST01	RL-TP14	RL-ER06
331H	RL-ST01				RL-ST01	RL-TP14	RL-ER06
<b>General Purpose Offices</b>	RL-I13 RL-TP13				RL-I13 RL-TP13	RL-TP13	RL-TP13
<b>General Purpose Warehouses</b>	RL-I149 RL-TP13				RL-I149 RL-TP13	RL-TP13	RL-TP13
212P	RL-I149				RL-I149	RL-TP10	RL-TP10
<b>Environmental Support Facilities</b>	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
242B					RL-TP10	RL-TP10	
242BL					RL-TP10	RL-TP10	
6652H	RL-ST01				RL-ST01	RL-TP10	RL-ER02

\* RL PBS Identifier Index:

Cogema - Cogema  
RL-ER02 - 200 Area Source Remedial Action  
RL-ER03 - 300 Area Source Remedial Action  
RL-ER05 - Surveillance & Maintenance  
RL-ER06 - Decontamination & Decommissioning

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RL-ER07 - Long Term Surveillance & Maintenance  
 RL-ER10 - ER Program Management and Support  
 RL-I111 - Steam Utilities  
 RL-I13 - General Purpose Facilities  
 RL-I131 - Government Owned Offices  
 RL-I149 - Asset Management  
 RL-OT01 - Mission Support - Other Multi-Year Program  
 RL-ST01 - PNNL Waste Management  
 RL-TP01 - B-Plant  
 RL-TP02 - WESF  
 RL-TP03 - PUREX  
 RL-TP04 - 300 Area/SNM  
 RL-TP05 - PFP  
 RL-TP08 - 324/327 Facility Transition  
 RL-TP10 - Accelerated Deactivation  
 RL-TP11 - Advanced Reactors Transition  
 RL-TP13 - Landlord  
 RL-TP14 - Hanford Surplus Facility Prog 300A Revitalization  
 RL-TW01 - Tank Waste Characterization  
 RL-TW02 - Tank Safety Issue Resolution  
 RL-TW03 - Tank Farm Operations  
 RL-TW04 - Retrieval  
 RL-WM03 - Solid Waste Storage & Disposal  
 RL-WM04 - Solid Waste Treatment  
 RL-WM05 - Liquid Effluents  
 RL-WM06 - Analytical Services

**TABLE 4-41 Facility Stabilization Facility Life-Cycle Responsibility Assignments for Waste Sites**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
<b>CP Soil Site Operable Units</b>	Active		RL-ER02 RL-ER05	RL-ER02 RL-ER07
200-E-100, Steam Trap 2P-Yard-MSS-TRP-019, Miscellaneous Stream #571	Active	RL-TP01		
200-E-16, B Plant Waste Concentrator, Low Level Waste Concentrator, Single-Stage Thermal Siphon Reboiler	Active	RL-TP01	RL-ER02	RL-ER02
200-E-25, 272-BB French Drain, Insulation Shop French Drain, Miscellaneous Stream #659	Active	RL-TP01		
200-E-28, 221-B Building Steam Condensate Release	Active	RL-TP01	RL-ER02	RL-ER02
200-E-30, 291-B Sand Filter, 221-B Stack Sand Filter	Active	RL-TP01	RL-ER02	RL-ER02
200-E-32, 226-B Pad East Side 90-Day Waste Accumulation Area	Active	RL-TP01		
200-E-88, B Plant Yard Steam Condensate, Miscellaneous Stream #3	Active	RL-TP01		
200-E-89, B Plant Yard Steam Condensate, Miscellaneous Stream #4	Active	RL-TP01		
200-E-90, B Plant Yard Steam Condensate, Miscellaneous Stream #5	Active	RL-TP01		
200-E-91, B Plant Yard Steam Condensate, Miscellaneous Stream #6	Active	RL-TP01		
200-E-92, B Plant Yard Steam Condensate, Miscellaneous Stream #7	Active	RL-TP01		
200-E-93, B Plant Yard Steam Condensate, Miscellaneous Stream #8	Active	RL-TP01		
200-E-94, B Plant Yard Steam Condensate, Miscellaneous Stream #9	Active	RL-TP01		
200-E-95, 222B Steam Condensate, Miscellaneous Stream #308	Active	RL-TP01		
200-E-97, 212B Building Steam Condensate, Miscellaneous Stream #470	Active	RL-TP01		
200-E-98, 271B Building Ice Machine Overflow, Miscellaneous Stream #490	Active	RL-TP01		
200-E-99, Steam Trap 2P-Yard-MSS-TRP-017, Miscellaneous Stream #570	Active	RL-TP01		
217-B NU, 217-B Neutralization Unit, Elementary Neutralization Unit/217-B Building	Active	RL-TP01	RL-ER02	RL-ER02
221-B NANU, 221-B Nitric Acid Neutralization Unit, 221-B Elementary Neutralization Unit for Nitric Acid	Active	RL-TP01	RL-ER02	RL-ER02
221-B SDT, 221-B Settle and Decant Tank, B Plant Settle and Decant Tank, 221-B-8-1 and 221-B-8-2, 221-B-TK-8-1 and 221-B-TK-8-2	Active	RL-TP01	RL-ER02	RL-ER02
221-B SHNU, 221-B Sodium Hydroxide Neutralization Unit, 221-B Elementary Neutralization Unit for Sodium Hydroxide	Active	RL-TP01	RL-ER02	RL-ER02
221-B-26-1, 221-B-TK-26-1, B Plant Radioactive Organic Waste Solvent Tank 1	Active	RL-TP01	RL-ER02	RL-ER02
221-B-27-2, 221-B-TK-27-2, 221-B Tank 27-2	Active	RL-TP01	RL-ER02	RL-ER02
221-B-27-3, 221-B-TK-27-3, B Plant Radioactive Organic Waste Solvent Tank 2	Active	RL-TP01	RL-ER02	RL-ER02

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**TABLE 4-41 Facility Stabilization Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
221-B-27-4, 221-B-TK-27-4, B Plant Radioactive Organic Waste Solvent Tank 3	Active	RL-TP01	RL-ER02	RL-ER02
221-B-28-3, 221-B-TK-28-3, B Plant Radioactive Organic Waste Solvent Tank 4	Active	RL-TP01	RL-ER02	RL-ER02
221-B-28-4, 221-B-TK-28-4, B Plant Radioactive Organic Waste Solvent Tank 5	Active	RL-TP01	RL-ER02	RL-ER02
221-B-29-4, 221-B-TK-29-4, B Plant Radioactive Organic Waste Storage Tank #7, 221-B TK-29-4	Active	RL-TP01	RL-ER02	RL-ER02
221-B-30-3, 221-B-TK-30-3, B Plant Radioactive Organic Waste Solvent Tank #6, 221-B TK-30-3	Active	RL-TP01	RL-ER02	RL-ER02
221-B-WS-1, B Plant Storage	Active	RL-TP01	RL-ER02	RL-ER02
221-B-WS-2, B Plant Waste Piles	Active	RL-TP01	RL-ER02	RL-ER02
226-B HWSA, 226-B Hazardous Waste Storage Area	Active	RL-TP01	RL-ER02	RL-ER02
B PLANT FILTER, B Plant Filter, 221-B-TK-34-2 Decant Filter, Filter F-34-4	Active	RL-TP01	RL-ER02	RL-ER02
242-B, 242-B Evaporator	Active	RL-TP01	RL-ER02	RL-ER02
207-B, B Plant Retention Basin, 207-B Retention Basin	Active	RL-TP01	RL-ER02	RL-ER02
216-A-42, 207-AA Retention Basin, 216-A-42 Trench, 216-A-42 Retention Basin, 207-A Retention Basin	Active	RL-TP01	RL-ER02	RL-ER02
216-B-59, 216-B-58 Trench, 216-B-58 Ditch	Active	RL-TP03	RL-ER02	RL-ER02
216-B-59B, 216-B-59 Retention Basin	Active	RL-TP03	RL-ER02	RL-ER02
UPR-200-E-32, UN-200-E-32, Coil Leak from 221-B	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-66, 216-A-42 Basin Contamination Release, UN-216-E-66, UN-200-E-66	Active	RL-TP03	RL-ER02	RL-ER02
200-W-58, Z-Plant Diversion Box #1	Active	RL-TP05	RL-ER02	RL-ER02
200-W-59, Z-Plant Diversion Box #2	Active	RL-TP05	RL-ER02	RL-ER02
241-Z, 241-Z Treatment and Storage Tanks, 241-Z Tank Farm, 241-Z Treatment and Storage System, 241-Z-D-4, 241-Z-D-5, 241-Z-D-7, 241-Z-D-8, 241-Z Sump, 241-Z Tank Pit	Active	RL-TP05	RL-ER02	RL-ER02
UPR-200-E-1, Waste Line Failure on South Side of 221-B	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-117, Contaminated Liquid Spill, UN-200-E-117	Active	RL-TP01	RL-TW03	RL-ER02
UPR-200-E-3, Line leak from 221-B to 241-BX-154, UN-200-E-3	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-41, UN-200-E-41 Soil Contamination in the Vicinity of R-13 Stairwell (221-B), UPR-200-E-85	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-44, UN-200-E-44, Waste Line Leak South of 221-B	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-45, UN-200-E-45, Contamination Spread from the 241-B-154 Diversion Box	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-80, UN-216-E-8, 221-B R-3 Line Break, R-3 Radiation Zone, UN-200-E-80	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-85, Line Leak at 221-B Stairwell R-13, UN-216-E-13, UPR-200-E-41, UN-200-E-85, UN-200-E-41	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-96, Ground Contamination SE of PUREX, UN-216-E-24, UN-200-E-96	Active	RL-TP03	RL-ER02	RL-ER02
UPR-200-W-79, Contamination Spread at 241-Z, UN-200-W-79	Active	RL-TP05	RL-ER02	RL-ER02
216-A-15, Miscellaneous Stream #461	Active	RL-TP03	RL-ER02	RL-ER02
216-A-11 French Drain, Miscellaneous Stream #465	Active	RL-TP03	RL-ER02	RL-ER02
216-A-12, Miscellaneous Stream #463	Active	RL-TP03	RL-ER02	RL-ER02
216-A-13, 216-A-13 French Drain, Miscellaneous Stream #460	Active	RL-TP03	RL-ER02	RL-ER02
216-A-14, French Drain - Vacuum Cleaner Filter Pit, Miscellaneous Stream #462	Active	RL-TP03	RL-ER02	RL-ER02
216-A-21	Active	RL-TP03	RL-ER02	RL-ER02
216-A-22, 216-A-22 French Drain, 216-A-22 Crib	Active	RL-TP03	RL-ER02	RL-ER02
216-A-26, 216-A-26 French Drain, 216-A-26B, Miscellaneous Stream #464	Active	RL-TP03	RL-ER02	RL-ER02
216-A-26A, 216-A-25 Crib, 216-A-26 French Drain, 291-A French Drain	Active	RL-TP03	RL-ER02	RL-ER02
216-A-32	Active	RL-TP03	RL-ER02	RL-ER02
216-A-33, 216-A-33 Dry Well, 216-A-26B	Active	RL-TP03	RL-ER02	RL-ER02
216-A-35 French Drain, 216-A-35 Dry Well	Active	RL-TP03	RL-ER02	RL-ER02
216-A-38-1, 216-A-38	Rejected(Proposed)	RL-TP03		
216-A-4, 216-A-4 Cavern	Active	RL-TP03	RL-ER02	RL-ER02
216-A-41	Active	RL-TP01	RL-ER02	RL-ER02
216-B-13, 216-B-13 French Drain, 291-B Crib, 216-B-B, 216-B-13 Crib	Active	RL-TP03	RL-ER02	RL-ER02
216-B-4, 216-B-4 French Drain, 216-B-4 Dry Well	Active	RL-TP01	RL-ER02	RL-ER02
216-B-61, 216-B-61 Crib	Rejected(Proposed)	RL-TP01	RL-TP10	
216-Z-13, 234-5 Dry Well #1, 216-Z-13 Dry Well	Active	RL-TP05	RL-ER02	RL-ER02
216-Z-14, 234-5 Dry Well #2, 216-Z-14 Dry Well	Active	RL-TP05	RL-ER02	RL-ER02

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**TABLE 4-41 Facility Stabilization Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
216-Z-15, 234-5 Dry Well #3, 216-Z-15 Dry Well	Active	RL-TP05	RL-ER02	RL-ER02
200-E-33, PUREX 214-A 90-Day Waste Accumulation Areas	Active	RL-TP03		
200-E-34, PUREX High Level Waste Room 90-Day Waste Accumulation Area	Active	RL-TP03		
200-E-39, PUREX Room 52, Hood 32 90-Day Waste Accumulation Area	Active	RL-TP03		
200-E-40, PUREX Sample Gallery 90--Day Waste Accumulation Area	Active	RL-TP03		
200-E-42, UN-216-E-34, PUREX Stack Release	Active	RL-TP03		
200-E-44, PUREX Railroad Cut	Active	RL-TP03	RL-TP10	RL-ER02
200-E-54, Liquid Release to the Environment from PUREX Deep Filter Bed #1	Active	RL-TP03	RL-ER02	RL-ER02
202-A HWSA, 202-A Hazardous Waste Storage Area	Active	RL-TP03	RL-ER02	RL-ER02
202-A NU, 202-A Neutralization Unit, Elementary Neutralization Unit/202-A Building, PUREX	Active	RL-TP03	RL-ER02	RL-ER02
202-A-E-F11, 202-A-TK-E-F11, PUREX Tank E-F11	Active	RL-TP03	RL-ER02	RL-ER02
202-A-E5, 202-A-TK-E5, PUREX Tank E5	Active	RL-TP03	RL-ER02	RL-ER02
202-A-F15, 202-A-TK-F15, PUREX Tank F-15	Active	RL-TP03	RL-ER02	RL-ER02
202-A-F16, 202-A-TK-F16, PUREX Tank F16	Active	RL-TP03	RL-ER02	RL-ER02
202-A-F18, 202-A-TK-F18, PUREX Tank F18	Active	RL-TP03	RL-ER02	RL-ER02
202-A-G7, 202-A-TK-G7, PUREX Tank G7	Active	RL-TP03	RL-ER02	RL-ER02
202-A-U3, 202-A-TK-U3, PUREX Tank U3	Active	RL-TP03	RL-ER02	RL-ER02
202-A-U4, 202-A-TK-U4, PUREX Tank U4	Active	RL-TP03	RL-ER02	RL-ER02
202-A-WS-1, PUREX Waste Piles	Active	RL-TP03	RL-ER02	RL-ER02
211-A NU, 211-A Neutralization Unit, Elementary Neutralization Unit/211-A Building, PUREX	Active	RL-TP03	RL-ER02	RL-ER02
218-E-14, PUREX Tunnel No. 1	Active	RL-TP03	RL-TP10	RL-ER02
218-E-15, PUREX Tunnel No. 2	Active	RL-TP03	RL-ER02	RL-ER02
216-Z-9, 216-Z-9 Cavern, 234-5 Recuplex Cavern, 216-Z-10, 216-Z-9 Crib, 216-Z-9 Trench	Active	RL-TP05	RL-ER02	RL-ER02
241-Z-361, 241-Z-361 Settling Tank	Active	RL-TP05	RL-ER02	RL-ER02
UPR-200-W-103, 216-Z-18 Line Break, UN-216-W-13, UN-200-W-103	Active	RL-TP05	RL-ER02	RL-ER02
216-A-28, 216-A-28 French Drain, 216-A-28 Crib	Active	RL-TP03	RL-ER02	RL-ER02
216-A-36A, 216-A-36 Crib	Active	RL-TP03	RL-ER02	RL-ER02
216-A-5, 216-A-5 Cavern	Active	RL-TP03	RL-ER02	RL-ER02
216-B-60, 216-B-60 Crib	Active	RL-TP01	RL-ER02	RL-ER02
270-E-1, 270--E CNT, 270-E Condensate Neutralization Tank, 216-ER-1	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-39, Release from 216-A-36B Crib Sampler, UN-200-E-39	Active	RL-TP03	RL-ER02	RL-ER02
UPR-200-E-40, Release from the 216-A-36B Crib Sampler, UN-200-E-40	Active	RL-TP03	RL-ER02	RL-ER02
216-A-2, 216-A-2 Cavern	Active	RL-TP03	RL-ER02	RL-ER02
216-A-31	Active	RL-TP03	RL-ER02	RL-ER02
216-A-45, 216-A-45 Crib	Active	RL-TP03	RL-ER02	RL-ER02
207-Z, 207-Z Retention Basin, 241-Z Retention Basin, 241-Z-RB	Active	RL-TP05	RL-ER02	RL-ER02
216-B-64, 216-B-64 Retention Basin, 216-B-64 Trench, 216-B-64 Crib	Active	RL-TP01	RL-ER02	RL-ER02
200-E-6, Septic Tank, Sanitary Sewer Repair and Replacement 2607-E4	Active	RL-TP01	RL-ER02	RL-ER02
2607-E3	Active	RL-TP01	RL-ER02	RL-ER02
2607-E4	Active	RL-TP01	RL-ER02	RL-ER02
2607-E9	Active	RL-TP01	RL-ER02	RL-ER02
2607-EA, 2607-EA Septic Tank and Drywell	Active	RL-TP03	RL-ER02	RL-ER02
2607-EE, 2607-EL	Active	RL-TP03	RL-ER02	RL-ER02
2607-W8	Active	RL-TP03	RL-TP10	RL-ER02
2607-WA	Active	RL-TP05	RL-ER02	RL-ER02
2607-Z	Active	RL-TP05	RL-ER02	RL-ER02
2607-Z1, Septic Tank and Drainfield	Active	RL-TP05	RL-ER02	RL-ER02
2607-Z8	Active	RL-TP05	RL-ER02	RL-ER02
TFS OF 218-E-4, Tile Field South of 218-E-4	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-35, Buried Contaminated Pipe, UN-218-E-1, 218-E-13	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-95, UN-216-E-23, UN-200-E-95, Ground Contamination Around RR Spur Between 218-E-2A and 218-E-2	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-7, UN-200-E-7, Cave-In Near 219-B-9 (241-B-361 Crib)	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-103, UN-200-E-103, BCS Line Leak South of R-17 at 221-B	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-112, UN-200-E-112, Contaminated Railroad Track from B-Plant to the Burial Ground	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-142, 202-A Diesel Fuel Spill, UN-200-E-142	Active	RL-TP03	RL-ER02	RL-ER02
UPR-200-E-2, UN-200-E-2, Spotty Contamination Around the B and T Plant Stacks	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-28, Contamination Release Inside the PUREX Exclusion Area, UN-200-E-28	Active	RL-TP03	RL-ER02	RL-ER02

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**TABLE 4-41 Facility Stabilization Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
UPR-200-E-52, UN-200-E-52, Contamination Spread Outside the North Side of 221-B	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-54, UN-200-E-54, Contamination Outside 225-B Doorway	Active	RL-TP01	RL-TP02	RL-ER02
UPR-200-E-55, UN-200-E-55, Contamination Spread South of B Plant	Active	RL-TP01	RL-TP02	RL-ER02
UPR-200-E-69, UN-216-E-69, Railroad Car Flush Water Radioactive Spill, UN-200-E-69	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-90, UN-216-E-18, Ground Contamination around B Plant Sand Filter, UN-216-E-90, Radioactive Spill Near 221-B Building, UN-200-E-90	Active	RL-TP01	RL-ER02	RL-ER02
UPR-200-E-97, PUREX Railroad Tunnel Contamination, UN-216-E-25, UN-200-E-97	Active	RL-TP03	RL-ER02	RL-ER02
UPR-200-W-159, Caustic Spill at Plutonium Finishing Plant, UN-200-W-159	Active	RL-TP05	RL-ER02	RL-ER02
UPR-200-W-23, Waste Box Fire at 234-5Z, UN-200-W-23	Active	RL-TP05	RL-ER02	RL-ER02
UPR-200-W-74, Overground Line Leak at 241-Z, UN-200-W-74	Active	RL-TP05	RL-ER02	RL-ER02
UPR-200-W-75, Contamination Spread at 241-Z, UN-200-W-75	Active	RL-TP05	RL-ER02	RL-ER02
UPR-200-W-90, Radioactive Contamination South of 236-Z Building, UN-216-N-90, UN-200-W-90	Active	RL-TP05	RL-ER02	RL-ER02
UPR-200-W-91, Radioactive Contamination near 234-5Z Building, UN-216-W-91, UN-200-W-91	Active	RL-TP05	RL-ER02	RL-ER02
234-5Z HWSA, 234-5Z Hazardous Waste Storage Area	Active	RL-TP05	RL-ER02	RL-ER02
2607-WB, 2607-WB Septic System	Active	RL-TP05	RL-ER02	RL-ER02
<b>PFP</b>	Active		RL-ER05 RL-TP05	RL-ER06 RL-ER07 RL-TP05
<b>S600 Soil Site Operable Units</b>	Active		RL-ER03 RL-ER05	RL-ER03 RL-ER07
300 SE, 300 Area Solvent Evaporator, Solvent Evaporator, 300 ASE	Closed Out	RL-TP04		
300-109, 333 Building Stormwater Runoff, Miscellaneous Stream #455	Active	RL-TP04	RL-TP04	RL-ER03
300-110, 333 Building Stormwater Runoff, Miscellaneous Stream #456	Active	RL-TP04	RL-TP04	RL-ER03
300-131, 3706 Fire Sprinkler System Water, Miscellaneous Stream #515	Rejected	RL-TP04		
300-132, 3706 Building Steam Condensate, Miscellaneous Stream #368	Rejected	RL-TP04		
300-133, 3706 Building Steam Condensate, Miscellaneous Stream #367, Injection Well #27	Rejected	RL-TP04		
300-134, 3706 Building Steam Condensate, Miscellaneous Stream #362	Rejected	RL-TP04		
300-135, 3706 Building Steam Condensate, Miscellaneous Stream #365	Rejected	RL-TP04		
300-136, 3706 Building Steam Condensate, Miscellaneous Stream #366	Rejected	RL-TP04		
300-137, 3706 Building Steam Condensate, Miscellaneous Stream #440	Rejected	RL-TP04		
300-138, 3706 Building Steam Condensate, Miscellaneous Stream #360	Rejected	RL-TP04		
300-139, 3706 Building Steam Condensate, Miscellaneous Stream #357	Rejected	RL-TP04		
300-140, 3706 Building Steam Condensate, Miscellaneous Stream #356	Rejected	RL-TP04		
300-141, 3706 Building Steam Condensate, Miscellaneous Stream #439, Injection Well #29	Rejected	RL-TP04		
300-142, 3706 Building Steam Condensate, Miscellaneous Stream #369, Injection Well #30	Rejected	RL-TP04		
300-143, 3706 Building Steam Condensate, Miscellaneous Stream #361	Rejected	RL-TP04		
300-144, 3706 Building Steam Condensate, Miscellaneous Stream #358	Rejected	RL-TP04		
300-145, 3706 Building Steam Condensate, Miscellaneous Stream #438, Injection Well #25	Rejected	RL-TP04		
300-146, 3706 Building Stormwater Runoff, Miscellaneous Stream #364	Rejected	RL-TP04		
300-147, 3706 Building Stormwater Runoff, Miscellaneous Stream #363	Rejected	RL-TP04		
300-148, 3706 Building Stormwater Runoff, Miscellaneous Stream #359, Injection Well #22	Rejected	RL-TP04		
300-149, 3706A Building Steam Condensate, Miscellaneous Stream #432, Injection Well #28	Rejected	RL-TP04		
300-16, Solid Waste Near 314 Building, Utility Pole Replacements	Active	RL-TP04	RL-ER03	RL-ER03
300-169, 3712 Building Steam Condensate, Miscellaneous Stream #351	Rejected	RL-TP04		
300-170, 3712 Building Steam Condensate, Miscellaneous Stream #437	Rejected	RL-TP04		
300-2, Contaminated Light Water Disposal	Active	RL-TP04	RL-ER03	RL-ER03
300-21, 333 Building Underground Limestone Tank	Rejected		RL-TP04	
300-219, 300 Area Waste Acid Transfer Line	Active	RL-TP04	RL-ER03	RL-ER03
300-22, 309 Building B-Cell Cleanout Leak	Active	RL-TP04	RL-ER03	RL-ER03
300-224, WATS and U-Bearing Piping Trench	Active	RL-TP04	RL-ER03	RL-ER03
300-23, PRTR Diesel Storage Tank, 309-1 UST	Closed Out	RL-TP04		
300-25, 324 Building	Active	RL-TP08	RL-TP08	RL-ER03
300-251, Unplanned Release Outside the 303-K Building	Active	RL-TP04	RL-ER03	RL-ER03
300-27, Soil Contamination at 329 Biophysics Laboratory	Rejected	RL-TP04		RL-ER03
300-28, Solid Waste Site Near 303-G Building	Active	RL-TP04	RL-ER03	RL-ER03

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**TABLE 4-41 Facility Stabilization Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
300-32, 333 Building, 333 N Fuels Manufacturing Building, New Fuel Cladding Facility	Active	RL-TP04	RL-ER03	RL-ER03
300-35, 3706A Fuel Storage Tank	Closed Out	RL-TP04		
300-39, 309 Building Ex-vessel Irradiated Fuel Storage Basin, 309 Building Irradiated Fuel Storage Basin, 309 Fuel Storage Basin	Active	RL-TP04	RL-ER03	RL-ER03
300-41, 306E Neutralization Tank, Underground Lime Tank and Valve Pit	Active	RL-TP04	RL-ER03	RL-ER03
300-42, 306E Fabrication and Testing Laboratory	Rejected		RL-TP14	RL-ER03
300-43, Unplanned Release Outside the 304 Building	Active	RL-TP04	RL-ER03	RL-ER03
300-46, Soil Contamination Surrounding 3706 Building	Active	RL-TP04	RL-ER03	RL-ER03
300-47, Residual Hazardous Substances Northwest of 3708 Building	Rejected		RL-TP14	
300-48, Thorium Oxide and Fuel Fabrication Chemical Wastes Around 3732 Building	Active	RL-TP04	RL-ER03	RL-ER03
300-53, Unplanned Release East Side of 303-G	Closed Out	RL-TP04		RL-ER03
300-55, 309 Rupture Loop Holding Tank, Rupture Loop Hold-up Tank, RLT-2, 307-D	Rejected	RL-TP04		
300-57, 335 Building 90-Day Waste Accumulation Area	Closed Out	RL-TP04	RL-TP04	
300-60, 303A Building Steam Condensate, Miscellaneous Stream #339, F.D. #26	Rejected	RL-TP04		
300-61, 303B Building Steam Condensate, Miscellaneous Stream #444, Injection Well #12	Rejected	RL-TP04		
300-64, 303F Building Steam Condensate, Miscellaneous Stream #352	Rejected	RL-TP04		
300-75, 309 Building Stormwater Runoff and Chiller Water, Miscellaneous Stream #445, Injection Well #20	Rejected	RL-TP04		
300-78, 300 Area Main Header Steam Trap (Southwest Corner of 313 Building), Miscellaneous Stream #331	Rejected	RL-TP04		
300-79, 313 Building Stormwater Runoff, Miscellaneous Stream #457	Rejected		RL-TP04	
300-81, 321 Building Steam Condensate, Miscellaneous Stream #370	Rejected	RL-TP04		
300-82, 321 Building Steam Condensate, Miscellaneous Stream #371	Rejected	RL-TP04		
300-83, 321 Building Steam Condensate, Miscellaneous Stream #372	Rejected	RL-TP04		
300-84, 321 Building Vent Valve on Water Line, Miscellaneous Stream #348	Rejected	RL-TP04		
300-92, 345 Building Stormwater Runoff, Miscellaneous Stream #680	Rejected	RL-TP04		
300-93, 324 Building Stormwater Runoff, Miscellaneous Stream #354	Rejected		RL-TP08	
300-94, 324 Building Stormwater Runoff, Miscellaneous Stream #711, 300-234	Rejected		RL-TP08	
300-95, 324/336 Buildings Stormwater Runoff and Steam Condensate; Miscellaneous Stream #425	Rejected	RL-TP04		
303-K CWS, 303-K Contaminated Waste Storage	Active	RL-TP04	RL-ER03	RL-ER03
303-M SA, 303-M Storage Area, 303-M Building Storage Area	Active	RL-TP04	RL-ER03	RL-ER03
303-M UOF, 303-M Uranium Oxide Facility	Active	RL-TP04	RL-ER03	RL-ER03
304 CF, 304 Concretion Facility	Closed Out	RL-TP04		
304 SA, 304 Storage Area, 304 Building Storage Area	Closed Out	RL-TP04		
309-TW-1, 309-TW Tank #1, 309 Holdup Tanks	Active	RL-TP04	RL-ER03	RL-ER03
309-TW-2, 309-TW Tank #2, 309 Holdup Tanks	Active	RL-TP04	RL-ER03	RL-ER03
309-TW-3, 309-TW Tank #3, 309 Holdup Tank	Active	RL-TP04	RL-ER03	RL-ER03
309-WS-1, 309 Plutonium Recycle Test Reactor Ion Exchanger Vault, Reactor Ion Exchange Pit, PRTR Ion Exchange Vault	Active	RL-TP04	RL-ER03	RL-ER03
309-WS-2, Rupture Loop Ion Exchange Pit, Ion Exchange Vault, Rupture Loop Annex Ion Exchange Loop Vault, RLAIX	Active	RL-TP04	RL-ER03	RL-ER03
309-WS-3, 309 Brine Tank	Active	RL-TP04	RL-ER03	RL-ER03
311 MT1, 311 Methanol Tank 1, 311 Tank Farm Underground Methanol Tank #1, 311-1	Closed Out	RL-TP04		
311 MT2, 311 Methanol Tank 2, 311 Tank Farm Underground Methanol Tank #2, 311-2	Closed Out	RL-TP04		
311-TK-40, 311 Neutralized Waste Tank 1	Active	RL-TP04	RL-ER03	RL-ER03
311-TK-50, 311 Neutralized Waste Tank 2, 311 Neutralization Tank #2	Active	RL-TP04	RL-ER03	RL-ER03
313 CENTRIFUGE, 313 Centrifuge, 300 Area WATS	Active	RL-TP04	RL-ER03	RL-ER03
313 ESSP, 313 East Side Storage Pad, 313 Building East Site Storage Pad	Active	RL-TP04	RL-TP04	RL-ER03
313 FP, 313 Filter Press, 300 Area Waste Acid Treatment System	Active	RL-TP04	RL-ER03	RL-ER03
313-TK-2, 313 Waste Acid Neutralization Tank, 300 Area Waste Acid Treatment System	Active	RL-TP04	RL-ER03	RL-ER03
323 Tank 1, 321 Building Underground Waste Tanks, 321 Tank Farm #3	Active	RL-TP14	RL-TP04	RL-ER03
323 Tank 2, 321 Building Underground Waste Tanks, 321 Tank Farm #3	Active	RL-TP14	RL-TP04	RL-ER03
323 Tank 3, 321 Building Underground Waste Tanks, 321 Tank Farm #3	Active	RL-TP14	RL-TP04	RL-ER03
323 Tank 4, 321 Building Underground Waste Tanks, 321 Tank Farm #3	Active	RL-TP14	RL-TP04	RL-ER03

**TABLE 4-41 Facility Stabilization Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
333 ESHWSA, 333 East Side HWSA, 333 Building East Side Hazardous Waste Storage Area	Active		RL-TP04	RL-ER03
333 WSTF, 333 West Side Tank Farm, 333 West Side Waste Oil Tank, 333 West Side Uranium Bearing Acid Tanks, 333 WSWOT	Active	RL-TP04	RL-ER03	RL-ER03
333-TK-11, 333 West Side Storage Tank for Uranium Bearing Acid, 333 Chromium Treatment Tank 2	Active	RL-TP04	RL-ER03	RL-ER03
333-TK-7, 333 West Side Storage Tank for Uranium Bearing Acid, 333 Chromium Treatment Tank 1	Active	RL-TP04	RL-ER03	RL-ER03
334 TFWAST, 334 Tank Farm Waste Acid Storage Tank, Tank 4	Active	RL-TP04	RL-ER03	RL-ER03
334-A-TK-B, 334-A Waste Acid Storage Tank 1	Active	RL-TP04	RL-ER03	RL-ER03
334-A-TK-C, 334-A Waste Acid Storage Tank 2	Active	RL-TP04	RL-ER03	RL-ER03
335 & 336 RSDF, 335 & 336 Retired Sanitary Drain Field	Rejected	RL-TP04		RL-ER03
3712 USSA, 3712 Uranium Scrap Storage Area, 3712 Building Uranium Scrap Storage Area, 3712 Fuels Warehouse	Active	RL-TP04	RL-TP04	RL-TP04
3718-F BS, 3718-F Burn Shed	Closed Out	RL-TP04	RL-TP04	RL-ER03
3718-F SF, 3718-F Storage Facility, 3718-F Alkali Metal Treatment Facility	Closed Out	RL-TP04	RL-TP04	RL-ER03
3718-F TT1, 3718-F Treatment Tank 1	Closed Out	RL-TP04	RL-TP04	RL-ER03
3718-F TT2, 3718-F Treatment Tank 2	Closed Out	RL-TP04	RL-TP04	RL-ER03
618-1, Solid Waste Burial Ground No. 1, 318-1	Active	RL-TP04	RL-ER03	RL-ER03
UPR-300-13, UN-300-13, Acid Neutralization Tank Leak East of 333 Building	Rejected	RL-TP04		RL-ER03
UPR-300-14, UN-300-14, Acid Leak at 334 Tank Farm	Rejected	RL-TP04		RL-ER03
UPR-300-17, UN-300-17	Active	RL-TP04	RL-ER03	RL-ER03
UPR-300-18, UN-300-18	Rejected		RL-TP04	RL-ER03
UPR-300-31, UN-300-31	Rejected		RL-TP04	RL-ER03
UPR-300-38, Soil Contamination Beneath the 313 Building	Active	RL-TP04	RL-ER03	RL-ER03
UPR-300-39, UN-300-39	Active	RL-TP04	RL-ER03	RL-ER03
UPR-300-4, UN-300-4	Active	RL-TP04	RL-ER03	RL-ER03
UPR-300-40, Acid Release at the 303-F Pipe Trench, UN-300-40, UPR-300-31, UN-300-31	Active	RL-TP04	RL-TP04	RL-ER03
UPR-300-44, 313 Building, Uranium Bearing Waste Etch-Acid Spill, UN-300-44	Rejected	RL-TP04		RL-ER03
UPR-300-45, 303-F Building Uranium-Bearing Acid Spill, UN-300-45	Active	RL-TP04	RL-ER03	RL-ER03
UPR-300-46, Contamination North of 333 Building	Active	RL-TP04	RL-ER03	RL-ER03
UPR-300-5, UN-300-5, Spill at 309 Storage Basin	Active	RL-TP04	RL-ER03	RL-ER03

The 'Rejected' and 'Completed' waste sites are part of the Project Hanford Management Contract (PHMC), but require no additional work from the PHMC team. When they are removed from the contract via direction from the RL Contracting Officer representative, they will be removed from this specification.

\* RL PBS Identifier Index:

RL-ER02 - 200 Area Source Remedial Action  
 RL-ER03 - 300 Area Source Remedial Action  
 RL-ER05 - Surveillance & Maintenance  
 RL-ER06 - Decontamination & Decommissioning  
 RL-ER07 - Long Term Surveillance & Maintenance  
 RL-TP01 - B-Plant  
 RL-TP02 - WESF  
 RL-TP03 - PUREX  
 RL-TP04 - 300 Area/SNM  
 RL-TP05 - PFP  
 RL-TP08 - 324/327 Facility Transition  
 RL-TP10 - Accelerated Deactivation  
 RL-TP14 - Hanford Surplus Facility Prog 300A Revitalization  
 RL-TW03 - Tank Farm Operations

#### 4.2.4.e Performance Measures

Performance measures are used to monitor both mission and corporate management. In this

document, our focus is on mission management. There are two types of mission-focused performance measures. First, there are performance measures that monitor the progress made on activities that must be completed to enable a key step in waste/material cleanup to occur. For the Facility Stabilization mission, these activities may involve the deactivation of facilities, decoupling active and inactive facilities, repair and upgrade of waste storage facilities and systems, and development of waste treatment/storage/transfer plans.

Second, there are performance measures that track the progress made in the processing of wastes, other materials, and facilities. These "process" measures monitor changes in waste/material/facility form, storage/containment method, and location. These measures are important because they are directly linked to two key Success Indicators - the reduction in the level of active management required for the inventory and the reduction in the hazard posed by the waste/material. Process measures will monitor the waste/material/facility during each major processing step as it transitions from its initial configuration to the configuration described by the appropriate endpoint target. Endpoint targets for the Facility Stabilization mission are presented in the Hanford Strategic Plan and are included in the *Facility Life-Cycle Requirements Section* for each project that comprises this mission.

#### **4.2.4.1 B-Plant**

##### **4.2.4.1.1 Project Description Summary**

This project completed the orderly transitioning of B Plant into a safe and stable configuration suitable for long term surveillance pending final decommissioning. This included the deactivation of the 800 foot long B Plant canyon building and adjoining support facilities to an environmentally secure and stable state. Deactivation of B Plant was completed in fiscal year 1998. Remaining work items were completion of the Punch List of activities identified during deactivation for post deactivation, assembly of facility status documentation, and updating safety basis documentation to reflect the deactivated state. Turnover to the ER Program was accomplished in fiscal year 1999.

##### **4.2.4.1.2 Life-Cycle Material and Waste Flow**

This project has no responsibility for managing waste inventory.

##### **4.2.4.1.3 Facility Life-Cycle Requirements**

- Requirements

- None

- Planning Assumptions

- None



#### **4.2.4.1.4 Project Safety Authorization Basis/NEPA and Permits**

Deactivation activities shall be evaluated against the approved safety authorization basis to identify any potential USQs. If the activity is shown to fall within the bounds of the safety authorization basis, additional approval is not required. If the activity is not covered, the work plans must be modified to stay within the bounds of the existing safety authorization basis or the change and activity must be approved by RL before the activity may proceed. Once approved by RL, the new analysis shall become part of the approved safety basis. The existing safety basis for B Plant is contained within the following documents:

- WHC-SD-WM-ISB-008, B Plant Interim Safety Basis (Chalk 1996a)
- WHC-SD-WM-SARR-030, B Plant Interim Safety Basis Accident Analysis (Chalk 1996b)
- WHC-SD-WM-TM-004, B Plant Facility Description (Chalk 1996c)
- WHC-SD-WM-FHA-021, B Plant Fire Hazard Analysis (Sepahur 1996).

Environmental, safety, and health requirements for B Plant are contained in the S/RID for B Plant.

#### **4.2.4.1.5 Tri-Party Agreement Requirements**

- None

#### **4.2.4.1.6 Interfaces**

#### **4.2.4.1.7 Requirements References**

- DOE/RL-96-92, Hanford Strategic Plan"

#### **4.2.4.2 WESF**

##### **4.2.4.2.1 Project Description Summary**

The Waste Encapsulation and Storage Facility (WESF) project mission is assuring the safe storage of approximately 147 million curies of encapsulated radioactive material. As part of accomplishing this mission, old systems and structures must be updated to be capable of functioning safely for the next 18 years. Primary upgrades are planned in the next few years in the areas of response to a potential capsule leak, pool cell monitoring capabilities, and capsule monitoring equipment. Safety analyses are also being upgraded with preparation of a new safety analysis report with accompanying operational safety requirements. These upgrades are necessary to maintain the capsules in a safe storage condition until transfer out for ultimate disposal. Final capsule removal is planned for 2017. After capsule removal the facility will be deactivated and turned over to the ER Program.

#### 4.2.4.2.2 Life-Cycle Material and Waste Flow

**Table 4-42 WESF Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
WESF	CH LLMW I	2000 - 2021	14.1	cubic meters
	CH LLW I	2000 - 2021	991.0	cubic meters
	HAZ	2000 - 2021	14.1	cubic meters
	HLW	2000 - 2018	723.0	cubic meters
	RH LLMW III	2017 - 2021	6.42	cubic meters
	RH LLW GTCIII	2017 - 2021	6.42	cubic meters
	RH LLW III	2017 - 2021	25.6	cubic meters
	Sanitary Liquid Waste	2000 - 2019	20.0	Mgal
	Treated Liquid Effluent	2000 - 2019	621000	cubic meters

#### 4.2.4.2.3 Facility Life-Cycle Requirements

The planning assumptions contained in this section have been extracted from the Hanford Strategic Plan (DOE.RL.96.92), and the Comprehensive Land Use Plan (DOE.EIS.222.D).

- Requirements
  - Facilities discharging to the 200 Area TEDF shall implement Best Available Technology (BAT)/All Known, Available, and Reasonable Treatment (AKART). The generator shall provide the information required by WAC 173-240, Submission of Plans and Reports for Construction of Waste Water Facilities.
  - Central Plateau gaseous effluent releases shall be monitored
  - Cesium capsules shall be safely stored in WESF.
  - Strontium capsules shall be safely stored in WESF.
- Planning Assumptions
  - Central Plateau high cost surplus facilities shall be transitioned to a low cost, stable, deactivated condition
  - Central Plateau facilities shall be maintained within the approved safety envelope
  - WESF shall be maintained within the approved safety envelope.
  - The contents of the cesium capsules shall be blended with HLW feed, treated and dispositioned as immobilized HLW.
  - The contents of the strontium capsules shall be blended with HLW feed, treated and dispositioned as immobilized HLW.

#### 4.2.4.2.4 Project Safety Authorization Basis/NEPA and Permits

The safety authorization basis for WESF is contained in WHC-SD-WM-SAR-005 (Covey 1997).

The Basis for Interim Operations (BIO) is contained in HNF-SD-WM-BIO-002 rev.1 (April 1998)

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The WESF operations, safety, and maintenance activities shall be managed in accordance with FSP-WESF-5-6, Waste Encapsulation and Storage Facility (WESF) Administration Manual (FDH 1997a).

#### **4.2.4.2.5 Tri-Party Agreement Requirements**

- TPA.M.17.0.B Complete implementation of "Best Available Technology/All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment (BAT/AKART) for all phase II liquid effluent streams at the Hanford Site. [Due Date: 1/31/98.]

#### **4.2.4.2.6 Interfaces**

**TABLE 4-43 WESF Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Hazardous Waste Disposal Contracts	EXTERNAL	Receives WESF Hazardous Waste from Operations Receives WESF Hazardous Waste from Transition
Tank Farm Operations	RL-TW03	Receives WESF-Misc. HLW
Privatization Phase II	RL-TW07	Receives WESF Cesium Capsules Receives WESF Strontium Capsules
Solid Waste Storage & Disposal	RL-WM03	Receives WESF, CH LLMW I Receives WESF, CH LLW I Receives WESF, RH LLMW III Receives WESF, RH-LLW-GTCIII Receives WESF, RH-LLW-III
Liquid Effluents	RL-WM05	Receives WESF Cooling Water and Liquid Effluent
Analytical Services	RL-WM06	Provides Analytical Laboratory Samples from WESF
Surveillance & Maintenance	RL-ER05	Receives Deactivated Waste Encapsulation and Storage Facility

#### **4.2.4.2.7 Requirements References**

- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"
- ST 4502, State Waste Discharge Permit for the 200 Area TEDF"

#### **4.2.4.3 PUREX**

##### **4.2.4.3.1 Project Description Summary**

This program element included the transition of the PUREX Plant and the necessary S&M throughout transition. The goal of the transition project is to achieve safe and environmentally secure facilities. Responsibility for PUREX surveillance was assumed by D&D Long-Term

Surveillance and Maintenance (RL-ER08), with the exception of Storage Tunnel #2, which is covered under the Accelerated Deactivation Project (RL-TP10).

#### **4.2.4.3.2 Life-Cycle Material and Waste Flow**

This project has no responsibility for managing waste inventory.

#### **4.2.4.3.3 Facility Life-Cycle Requirements**

- Requirements
  - None
- Planning Assumptions
  - None

#### **4.2.4.3.4 Project Safety Authorization Basis/NEPA and Permits**

#### **4.2.4.3.5 Tri-Party Agreement Requirements**

- TPA.M.80.0 Complete PUREX and UO3 Plant facility transition phase and initiate the surveillance and maintenance phase. [Due Date: 7/31/1998]

#### **4.2.4.3.6 Interfaces**

#### **4.2.4.3.7 Requirements References**

- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"
- ST 4502, State Waste Discharge Permit for the 200 Area TEDF"

#### **4.2.4.4 300 Area/SNM**

##### **4.2.4.4.1 Project Description Summary**

The history of the 300 Area Fuel Supply Shutdown (FSS) complex began in 1943 when the 313 Building was constructed. Other buildings were added in time to support production of fuel for

the Hanford Single Pass Reactor, which began in mid-1944. Starting in 1958, the 333 Building was constructed to support fuel fabrication for the N-Reactor. Fuel fabrication activities continued until 1987 when both N Reactor and the FSS facility began a transition-to-standby status. In 1992, the FSS complex was directed to deactivate in preparation for decontamination and decommissioning (D&D). The complex contains remaining legacies of the fuel fabrication and fuel storage mission and still includes approximately 1800 metric tons (MT) of unirradiated, low enriched fuel, which is stored in six buildings managed by FSS until relocation or final disposition. The original SNM inventory generated from fuel production operations also resulted in significant contamination of buildings and equipment, and large amounts of hazardous, mixed, and low level wastes. Due to the age of the buildings, they are showing signs of structural decay. Unsafe roof conditions in the 313 Building south side represent a large safety risk.

The 300 Area / SNM sub-project's main objective is to complete deactivation/closure activities as described in the "Shutdown Plan for the 300 Area Fuel Supply Facilities," (WHC-SD-FL-SSP-002), and the facility transfer criteria while maintaining the complex in a safe, regulatory-compliant state until turnover to Environmental Restoration (ER) Program is completed. Deactivation of the Fuel Supply complex will decrease human and environmental risk by stabilizing the buildings to levels of contamination consistent with its intended long term surveillance and eventual demolition status. Current planning is to sell the FSS inventory of SNM to a commercial uranium processing company. Any inventory of SNM remaining after the sale/offsite transfer will be declared waste and packaged for disposal. Sale/offsite transfer and burial of the remaining inventory of Special Nuclear Materials (SNM) will reduce risk of any possible contamination to the site, nearby river, and City of Richland.

The project is subdivided into five major objectives:

1. Maintain facilities in a regulatory-compliant state until turnover to the ER Program is completed. This includes the surveillance and storage of the remaining ~1800 MT of SNM until sale/offsite transfer and burial of remaining material in the 200 Area has been completed.
2. Complete the isolation or demolition of the 313 South Building to reduce the safety risks of an unsafe roof.
3. Complete closure of two remaining Resource Conservation and Recovery Act (RCRA) permitted Treatment, Storage, and Disposal (TSD) systems.
4. Complete deactivation/stabilization activities as described in the "Shutdown Plan for the 300 Area Fuel Supply Facilities." This includes stabilization of all facility buildings and deactivation of building systems to meet the predetermined endpoint criteria established with ER.
5. Complete disposition of remaining low enriched SNM. Removal of this material will allow final facility shutdown. This scope is managed by PBS RL-TP12, Transition Project Management. Funds for burial preparation of unsold special nuclear materials (SNM) is provided in TP04. However, efforts pursued by TP12, manager of SNM disposition, may provide alternate funding for disposition of subject material.

Project completion will be established by facility turnover to the ER Program for decontamination and decommissioning.

#### 4.2.4.4.2 Life-Cycle Material and Waste Flow

**Table 4-44 300 Area/SNM Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
300 Area Fuel Supply System	CH LLW I	2001 - 2001	0.0	cubic meters

**Table 4-44 300 Area/SNM Waste/Material Flow (Out) (Continued)**

Major Facility	Category	Period	Value	Units
	Depleted Uranium (DU)	2001 - 2001	2600	kilograms
	Low Enriched Uranium (LEU)	2001 - 2001	1780000	kilograms
	Natural Uranium (NU)	2001 - 2001	75600	kilograms

#### **4.2.4.4.3 Facility Life-Cycle Requirements**

The planning assumptions contained in this section have been extracted from the Hanford Strategic Plan (DOE.RL.96.92), and the Comprehensive Land Use Plan (DOE.EIS.222.D).

- Requirements
  - The Contractor shall safely and efficiently manage the deactivation of facilities in the 300 Area whose mission was the manufacture of fuels and test assemblies for the plutonium production, space power, and advanced reactor programs. The facilities include, among others, the 333 Building and associated facilities. The program will disposition nuclear material stored in these facilities. As the material is removed, each facility will be deactivated to reduce risk and attain the lowest surveillance and maintenance cost to a condition ready for disposition.
- Planning Assumptions
  - High cost surplus facilities and systems shall be transitioned to a low cost, stable, deactivated condition.
  - Facilities and systems shall be made available for other uses.
  - Facilities shall be transitioned to the surveillance and maintenance phase when no longer required to support the site mission.
  - 300 Area / SNM Project facilities shall be transitioned to the surveillance and maintenance phase.
  - 300 Area / SNM Project non-transferable special nuclear materials shall be buried in the 200 Area.
  - Unirradiated uranium shall be dispositioned offsite or disposed onsite as low level waste.
  - 300 Area facilities shall be surveilled and maintained within the approved safety envelope.
  - 300 Area / SNM Project special nuclear materials contained in various buildings shall be surveilled and maintained within the approved safety envelope.

#### **4.2.4.4.4 Project Safety Authorization Basis/NEPA and Permits**

The authorization basis documents for the 300 Area / SNM sub-project are WHC-SD-NR-ISB-001 (Benecke 1996), WHC-SD-NR-TSR-001 (Besser 1995b) and WHC-SD-CP-ISB-003 (Dodd 1996).

#### **4.2.4.4.5 Tri-Party Agreement Requirements**

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- TPA.MX.92.6.T.1 Complete commercial disposition and/or the acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal/disposition of all Hanford Site UU. [Due Date: 12/31/2000] TPA Target Milestone MX-92-06T.  
This target date includes all UU located in 300 Area fuel supply facilities (Uranium dioxide powder and pellets stored in cans, pins, assemblies, and drums), Uranium trioxide (UO<sub>3</sub>) powder stored in T-hoppers adjacent to the U-Plant, depleted UO<sub>3</sub> stored in 55 gallon drums in the 200 West Area and the 4713 Building.

#### **4.2.4.4.6 Interfaces**

**TABLE 4-45 300 Area/SNM Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Offsite Sales	EXTERNAL	Receives 300/FSS Depleted Uranium Receives 300/FSS Low Enriched Uranium Receives 300/FSS Natural Uranium Receives 300/FSS Other Nuclear Materials
Solid Waste Storage & Disposal	RL-WM03	Receives FUEL TRANS, CH-LLW-I
Surveillance & Maintenance	RL-ER05	Receives Deactivated 300 Area Fuel Supply System

#### **4.2.4.4.7 Requirements References**

- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"

#### **4.2.4.5 PFP**

##### **4.2.4.5.1 Project Description Summary**

The mission of the Plutonium Finishing Plant (PFP) Stabilization and Deactivation Project is to provide for the safe stabilization; interim storage; repackaging; and shipment of the PFP inventory of plutonium-bearing materials, spent nuclear fuel, and other nuclear material to other locations for reuse, long-term storage, and/or final disposition. The mission also requires deactivating and dismantling PFP Complex systems and structures to the degree determined appropriate via the NEPA process, thus eliminating significant hazards to workers, the public, and the environment, and minimizing long-term S&M risks and costs.

Stabilization of plutonium-bearing materials and deactivation/dismantlement of the PFP Complex will result in the virtual elimination of the hazards and risks associated with the facility and will greatly reduce the costs of safe, secure S&M. Using the lessons learned from

deactivation projects across the DOE Complex, further improvement on previously applied deactivation methods is anticipated.

The PFP Integrated Project Management Plan (IPMP) sets forth the plans, organization, and control systems for managing the PFP Stabilization and Deactivation Project, and includes the top level cost and schedule baselines. The IPMP integrates significant components of plutonium-bearing material stabilization activities, facility surveillance and maintenance, facility safety envelop maintenance, and facility deactivation activities with prior PFP deactivation project planning efforts. The IPMP applies an accelerated planning case, including technical alternatives and cost/schedule summaries, not currently reflected in the fiscal year 1999 Multi-Year Work Plan or in the Defense Nuclear Facilities Safety Board 94-1 Recommendation Implementation Plan. The IPMP also identifies key decisions affecting the project and provides a clear vision of the results to be obtained by the project.

The major mission objectives for the PFP Stabilization and Deactivation Project are as follows:

- Maintain inventory of plutonium-bearing material in safe and highly secure storage pending shipment offsite;
- Maintain the PFP facilities, systems, and residual radioactive and chemical contamination in a safe, compliant, and environmentally sound condition;
- Safely and cost-effectively stabilize and repackage the PFP material inventory as needed for safe, interim storage and to meet customer requirements for future reuse, long-term storage, or final disposition at other DOE sites;
- Support the DOE and the U.S. State Department in fulfilling their nuclear non-proliferation objectives;
- Ship the entire PFP material inventory to DOE-designated locations outside the PFP Complex for reuse, long-term storage, and/or final disposal;
- Deactivate, dismantle, and remove PFP process and support systems and structures as needed to achieve low risk, low cost end points for the PFP Complex;
- Further develop Hanford Site capabilities in nuclear facility decommissioning through implementation of lessons learned from prior onsite, offsite, and commercial nuclear facility deactivation projects; and
- Develop a synergistic partnership between the Facilities Transition and Environmental Restoration program teams in completing decommissioning of the PFP Complex.

#### 4.2.4.5.2 Life-Cycle Material and Waste Flow

**Table 4-46 PFP Waste/Material Flow (In)**

Major Facility	Category	Period	Value	Units
PFP	Misc SNM	2002 - 2002	32.0	Items
	Spent Nuclear Fuel (SNF)	2002 - 2002	0.602	MTHM



**Table 4-47 PFP Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
PFP	Asbestos	2000 - 2018	91.3	cubic meters
	CH LLMW I	2000 - 2015	63.2	cubic meters
	CH LLW I	2000 - 2016	36200	cubic meters
	CH LLW III	2000 - 2016	22.3	cubic meters
	CH TRU	2000 - 2016	4120	cubic meters
	CH TRUM	2000 - 2016	982.0	cubic meters
	HAZ	2000 - 2016	100.0	cubic meters
	Highly Enriched Uranium (HEU)	2000 - 2001	18.0	kilograms
	HLW	2000 - 2014	148.0	cubic meters
	Misc SNM	2007 - 2007	32.0	Items
	Plutonium (Pu)	2006 - 2008	4030	cans
	Sanitary Solid Waste	2000 - 2014	15100	cubic meters
	Treated Liquid Effluent	2000 - 2014	447000	cubic meters

#### 4.2.4.5.3 Facility Life-Cycle Requirements

The planning assumptions contained in this section have been extracted from the Hanford Strategic Plan (DOE.RL.96.92), and the Comprehensive Land Use Plan (DOE.EIS.222.D).

- Requirements
  - Facilities discharging to the 200 Area TEDF shall implement Best Available Technology (BAT)/All Known, Available, and Reasonable Treatment (AKART). The generator shall provide the information required by WAC 173-240, Submission of Plans and Reports for Construction of Waste Water Facilities.
  - The Clean Water Act establishes water quality standards for surface water and pretreatment standards for waste waters released to public-owned treatment works. All PFP support necessary to cease all discharges to the 21 6-Z-20 crib was completed prior to June 30 1995.
  - Deactivation of PFP shall comply with DOE/EIS-0244-D
  - Various DOE Orders provide and/or implement best management practices for policy and guidance to Transition Projects. The work scope, cost, and schedule are a direct result of conforming to these various orders. DOE Conduct of Operations and maintenance activities at PFP are driven by DOE 5480.19 and 4330.4B.-
  - Acquire and operate systems and facilities to achieve stabilization and de-inventory of SNM in accordance with DNFSB Recommendation 94-1 implementation agreements as documented in HNF-3617, rev 0, "Integrated Project Management Plan for the PFP Stabilization and Deactivation Project," April 1999.
  - Transition to deactivation, deactivate and dismantle all facilities by 9/30/2016.
  - Central Plateau gaseous effluent releases shall be monitored
  - Upon completion of stabilization activities in PFP (DNFSB 94-1 implementation), the de-inventory of the stabilized SNM materials to DOE designated sites, is completed in FY08.
  - PFP plutonium shall be stabilized and either placed in vault storage until shipped offsite or disposed of properly.
  - Complete stabilization of plutonium in PFP (DNFSB 94-1 implementation) by October 2004.

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- The Federal Facility Compliance Act establishes the framework for DOE to enter into Federal Facility Compliance Agreements with the individual states to address environmental issues.

Provide all PFP support necessary to complete compliance actions contained in the Hanford Federal Facility Compliance Agreement and Consent Order signed by the U.S. Department of Energy, the U.S. Environmental Protection Agency, and the State of Washington Department of Ecology. Provide all PFP support necessary to complete compliance actions contained in the Federal Facility Compliance Agreement for Radionuclide NESHAP signed by the U.S. Department of Energy and the State of Washington Department of Ecology.

- Plutonium Finishing Plant (PFP) Project.

The Contractor shall manage PFP to a condition ready for process facility disposition.

This includes the storage of residual special nuclear material (SNM) stored in PFP vaults, and stabilization and deactivation of the former process facility, in order to reduce risk and attain the lowest surveillance and maintenance cost. A primary stabilization activity is the conversion of SNM to a safe form suitable for packaging into 3013 containers and shipment to designated DOE sites for final disposition. The Contractor shall complete the mitigation of all the high risk plutonium vulnerability items identified in HNF-3617, rev 0, in response to Defense Nuclear Facilities Safety Board Recommendation 94-1. This involves stabilizing all the plutonium material and packaging into 3013 containers for final disposition.

- RCRA - All hazardous waste is collected, counted and identified for shipment to the Hanford Site Central Waste Storage complex
- The Comprehensive Environmental Response, Compensation, and Liability Act provides EPA with enforcement authority for remedial and corrective action activities at contaminated subproject waste sites, and is part of the regulatory authority for the Tri-Party Agreement. PFP support necessary to meet reporting requirements and complete corrective actions under CERCLA.
- The Occupational Safety and Health Act applies to any action involving the health and safety of employees in the work place. Periodic inspections are done at the PFP facilities to verify compliance with the OSHA Act. PFP activities must comply with the OSHA Act and assess any new starts/restarts of projects to the act. Continuous walk-throughs are done by the Safety Organization to ensure compliance with OSHA. PFP managers periodically review the safety and health issues to ensure compliance with OSHA-and 29-CFR-1910 guidelines Safety and Health assess level of chemicals by PFP Industrial Hygienist.
- The Clean Air Act provides policy and guidance related to release of air emissions that may be present during shutdown and cleanup activities. Prepare and submit the appropriate operating permit for entire site including PFP. 291-Z Stack Monitoring System is being readied to comply with the NESHAPS section of 40 CFR61.

- Planning Assumptions

- Facilities in Central Plateau - 5 Complete stabilization of plutonium in PFP (DNFSB 94-1 implementation) by October 2004.
- Central Core non-essential, surplus buildings shall be removed.
- Central Plateau shall be used for the collection and management of nuclear materials that remain onsite.

- Central Plateau facilities shall be maintained within the approved safety envelope
- PFP shall be maintained within the approved safety envelope.

#### **4.2.4.5.4 Project Safety Authorization Basis/NEPA and Permits**

1. HNF-SD-CP-SAR-021, Revision 1, "Plutonium Finishing Plant Final Safety Analysis Report" (Approved by DOE-RL Letter 99-TPD-298, August 2, 1999, "Contract No. DE-AC06-96RL13200 - Plutonium Finishing Plant (PFP) Safety Evaluation Report (SER) Amendment")
2. WHC-SD-CP-OSR-010, Revision 0-K, "Plutonium Finishing Plant Operational Safety Requirements" (Revision 0-J was approved by DOE-RL Letter 99-TPD-284, June 24, 1999, "Contract No. DE-AC06-96RL13200 - Safety Evaluation Report for Vertical Calciner located in Room 188 of the Plutonium Finishing Plant (PFP)" Revision 0-K is released by ECN 649629. DOE-RL approval is not required for changes to Administrative Control 5.22, Tables 5.22.1 and 5.22.2.)
3. DOE/DP-0130, January 1995, "Plutonium Finishing Plant Safety Evaluation Report" (Transmitted by DOE-RL Letter 95-PFP-001, January 11, 1995, "Approval of the Final Safety Analysis Report for the Plutonium Finishing Plant); and amendments.
4. HNF-2024, Rev 2, "Justification for Continued Operation for Tank 241-Z-361," and approval letter DOE-RL 99-TPD-206, June 3, 1999, "Contract No. DE-AC06-96RL13200 - Justification for Continued Operation (JCO) for Hanford Underground Storage Tank 241-Z-361", which contains the Safety Evaluation Report for Revision 2 of this JCO.
5. Letter FDH-9755705 R3, June 9, 1999, "Contract No. DE-AC06-96RL13200 - Plutonium Finishing Plant Operating Restrictions." (Revised Operating Restrictions resulting from Tank A-109 explosion, May 14, 1997.) (Approved by DOE-RL Letter-TPD-295, September 1, 1999, "Contract No. DE-AC06-96RL13200 - Plutonium Finishing Plant Operating Restrictions.")

Environmental, safety, and health requirements for PFP are contained in HNF-SD-MP-SRID-003, Revision 1, "Plutonium Finishing Plant (PFP) Standards/Requirements Identification Document (S/RID)." (Approved by DOE-RL Letter, 99-TPD-023, December 3, 1998, "Contract No. DE-AC06-96RL13200 - Plutonium Finishing Plant (PFP) Standards/Requirements Identification Document (S/RID), HNF-SD-MP-SRID-003).

#### **4.2.4.5.5 Tri-Party Agreement Requirements**

- TPA.M.15.37.A Deliver two core samples from tank 241-Z-361 to a laboratory for analysis. [Due Date: 10/30/99]
- TPA.M.15.37.B Provide the EPA with complete data packages, including validation, for two cores collected from tank 241-Z-361. Provide to EPA a recommendation for a regulatory path forward for the disposition on the tank 241-Z-361 sludge (e.g., expedited response interim remedial action, or defer to the 200-PW-1 operable unit RI.FS process. [Due Date: 5/31/00]

#### 4.2.4.5.6 Interfaces

**TABLE 4-48 PFP Interfaces**

Project Title	Project Number	Interface
Oak Ridge National Laboratory	EXTERNAL	Receives PFP Highly Enriched Uranium (to ORNL)
Offsite Landfill	EXTERNAL	Receives PFP Asbestos during Transition Receives PFP Sanitary Solid Waste
Savannah River Site	EXTERNAL	Receives PFP Plutonium to Offsite
Hazardous Waste Disposal Contracts	EXTERNAL	Receives PFP Hazardous Waste
Hanford Legacy	EXTERNAL	Provides Legacy PFP Plutonium Provides Legacy PFP Spent Nuclear Fuel
Tank Farm Operations	RL-TW03	Receives PFP Stabilization, HLW Receives PFP Transition, HLW
Solid Waste Storage & Disposal	RL-WM03	Receives PFP, CH-LLMW-I Receives PFP, CH-LLW-I Receives PFP, CH-LLW-III Receives PFP, CH-TRU Receives PFP, CH-TRUM
Liquid Effluents	RL-WM05	Receives PFP Wastewater
Analytical Services	RL-WM06	Receives Analytical Laboratory Samples from PFP
Long Term Surveillance & Maintenance	RL-ER07	Receives Safe & Compliant Deactivated Plutonium Finishing Plant

#### 4.2.4.5.7 Requirements References

- 29 CFR 1910, Occupational Safety and Health Standards"
- 40 CFR 61, National Emissions Standards for Hazardous Air Pollutants"
- 42 USC 6901, et seq., Resource Conservation and Recovery Act of 1976 (RCRA)"
- DNFSB 94-1, Defense Nuclear Facilities Safety Board Recommendation 94-1"
- DNFSBIP94-1, Defense Nuclear Facilities Safety Board, Implementation Plan 94-1"
- DOE Order 5400.4, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Requirements"
- DOE Order 5480.19, Conduct of Operations Requirements for DOE Facilities"
- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/EIS-0244-F, Plutonium Finishing Plant Stabilization Environmental Impact Statement"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"
- FFCA for HESHAP (2/7/94), The National Emission Standards for Hazardous Air Pollutants: Federal Facility Compliance Agreement for the Hanford Site"
- HNF-3617, Rev 0, Hanford Site Integrated Stabilization Management Plan"
- PL 92-500, Federal Water Pollution Control Act Amendments of 1972 (Clean Water Act)"
- ST 4502, State Waste Discharge Permit for the 200 Area TEDF"

#### 4.2.4.6 Transition Project Management

#### 4.2.4.6.1 Project Description Summary

Transition Project Management (TPM) provides centralized program, project and business management to plan, execute and control the Facility Stabilization Project (FSP). Transition Project Management provides for financial management and integration, common safeguard and security (SAS) support; centralized coordination of environmental, safety, health, radiological control and quality assurance; systems engineering (SE); new technology development and implementation support; policies and procedure development; excess facility and material planning (includes support to Hanford Surplus Facility Program 300 Area Revitalization project, Accelerated Deactivation project, etc.); FSP strategic planning; procurement and contract administration; management of Special Nuclear Materials (SNM); and operations integration support. Support for technical development of 200 Area Canyon Entombment, and Fluor Daniel Hanford, Inc. (FDH) project direction is also provided.

The primary FSP mission is to deactivate contaminated facilities on the Hanford Site; reduce risks to workers, the public and environment; transition the facilities to a low cost, long-term surveillance and maintenance state; and to provide safe and secure storage of Special Nuclear Materials, Nuclear Materials, and Nuclear Fuel (SNM/NM/NF). Facility deactivation will protect the health and safety of the public, on-site workers and the environment, and also provides for beneficial use of facilities, equipment and other resources.

As the mission for FSP has shifted from production to support of environmental restoration, each facility is making a transition to support the Site Cleanup Mission. FSP high level mission goals include: achieving deactivation of facilities and turnover of these facilities to EM-40; using Plutonium/Uranium Extraction (PUREX) and B-Plant deactivation as models for future facility deactivation; managing SNM/NM/NF in a safe and secure manner, and where appropriate, in accordance with International Atomic Energy Agency (IAEA) safeguards rules; treating SNM/NM/NF as necessary and storing these materials onsite in long-term storage awaiting final disposition decisions by the U.S. Department of Energy (DOE); implementing nuclear materials disposition directives; working in accordance with the Tri-Party Agreement (TPA), and other compliance agreements; and maintaining compliance with all applicable Federal, state and local laws.

Specific activities include:

Program, Business and Financial Management:

- Prioritize scope and budgets, and support strategic planning.
- Provide procurement and contract administration for the entire FSP.
- Provide direct financial management to all FSP Program activities.
- Provide specific management for the Transition Project Management (TP12) account.
- Prepare budget alternatives and special analyses as requested by DOE or company management.
- Coordinate activity-based cost estimates and resource-loaded schedules.
- Maintain the FSP Program Master Baseline Schedule.
- Prepare and maintain financial documents required by the site Project Tracking System (PTS), the Hanford Site Performance Report (HSPR), and the budget planning process including Multi-Year Program Plans (MYPPs), Project Baseline Summaries (PBS), Basis of Estimate (BOE) sheets, monthly reporting and budget alternatives and analysis.

- Provide strategic planning expertise on critical issues.

**Environmental Compliance, Safety, Health, Radiation Control and Quality Assurance:**

- Provide central coordination of environmental activities within FSP, including selective central program oversight of the implementation of TPA, environmental protection, facility compliance, and RCRA permitting activities.
- Develop/maintain environmental management system.
- Participate in the Hanford Central Environmental Committee.
- Administer and maintain the Integrated Safety Management System (ISMS).
- Provide Waste Minimization/Pollution Prevention/Dangerous Waste reporting.
- Provide Radiation Control technical support and oversight.
- Provide integration of Radiation Control procedures.
- Interface with FDH on Radiation Control issues.
- Track and trend Radiation Control performance indicators.
- Coordinate and integrate identification and resolution of FSP Quality Assurance (QA) issues.
- Provide oversight and direction on QA issues to facility management and personnel, including oversight of the Quality Improvement Plan (QIP).
- Measure, analyze, evaluate and report on the effectiveness of the FSP QA program.
- Maintain the Occupational Safety and Health Administration (OSHA) 200 Occupational Injuries/Illnesses (OII) log.
- Determine OSHA recordability classification of OII's.
- Coordinate all accident information and interface with FDH Safety, FDH Worker's Compensation and Hanford Environment Health Foundation (HEHF).
- Provide OII case management assistance.
- Administer the Voluntary Protection Program (VPP) application, review and implementation.

**Safeguards and Security:**

- Provide support for nonplant-specific administration and coordination of security system engineering, security projects, education and asset protection.
- Provide maintenance and testing support and system development for the Patrol Operations Center (POC) and Alarm Monitoring Operational Support System (AMOSS).
- Maintain the SNM accountability database.
- Develop and maintain policies and procedures governing the use, control, and accountability of SNM.

**Operations Integration:**

- Arrange for expert in plant mentoring & Conduct of Operations (COO) champions.
- Support COO Champions Program.
- Coordinate facility COO Assessments.
- Provide outside commercial nuclear operations perspective in review of plant operations.
- Support Maintenance Champions Program.
- Coordinate Conduct of Maintenance Self-Assessment Program.
- Support facilities reengineering.
- Distribute lessons learned within FSP and provide input to site-wide lessons learned program.
- Assist in development, review and evaluation of operations Performance Indicators.
- Coordinate all FSP Cost Savings efforts, including the Requirements Based Surveillance and Maintenance (RBSM) initiative.
- Implement/Coordinate the Deferred Maintenance program.

**Technical Integration:**

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- Support new technology development and implementation.
- Support policies and procedure development.
- Support special projects development (i.e., 200 Area Canyon Entombment, 200 Area Accelerated Deactivation, Hanford Surplus Facility Program 300 Area Revitalization project, Accelerated Deactivation project, and other excess facility planning projects).
- Support requirements management activities.
- Information and computer system expertise.
- Coordinate with the Hanford Site Technical Database (HSTD).
- Criticality Engineering coordination.
- Integrated Safety Management System (ISMS) implementation.

**Systems Engineering:**

- Interface with Site SE personnel to develop, under their guidance, Hanford Site specification, interface, and issue documents.
- Maintain the program SE documentation in the Hanford Site Technical Baseline (HSTB).
- Continue development of program-level alternatives, and maintain current selected plant alternatives in accordance with division strategic planning.
- Provide support for Project Baseline Summary (PBS), MYPP and other budget documentation development.
- Provide technical support for further development of the plant-level SE components to determine facility cleanup needs and the optimum cleanup strategy.
- Support development of plant and company interface agreements.
- Provide SE guidance, allowing facility work breakdown structures, resource-loaded activity schedules, and other budget documentation to be revised to ensure that FSP technical, cost, and schedule baselines reflect current SE results.
- Provide guidance and assistance in the development of SE documents for other existing contaminated facilities entering the FSP program.
- Support excess facility disposition planning.

**Nuclear Materials Management:**

- Continue development of Plutonium strategies and strategic analysis for Hanford.
- Coordinate SNM material receipts and shipments.
- Develop DOE Order 5660.1B reports (i.e., Inventory Assessment Report, Material Management Plan, etc.).
- Support DOE in development of Disposition Management Plans.
- Special project development (i.e. uranium disposition projects, etc.).
- Coordinate efforts to disposition all site unirradiated uranium.

**Canyon Entombment:**

- Continue Phase 2 characterization and treatability investigations at U Plant.
- Provide project management support for technical development of canyon disposition options.

**Fluor Daniel Hanford Project Direction:**

- Provide FDH Project Director's office, to oversee all FSP operations.
- Provide overall guidance and direction to FSP, and act as liaison between DOE and FSP.
- Provide FDH Project Managers at each plant.
- Provide FDH-contracted mentors at critical facilities.

#### **4.2.4.6.2 Life-Cycle Material and Waste Flow**

This project has no responsibility for managing waste inventory.

#### **4.2.4.6.3 Facility Life-Cycle Requirements**

The planning assumptions contained in this section have been extracted from the Hanford Strategic Plan (DOE.RL.96.92), and the Comprehensive Land Use Plan (DOE.EIS.222.D).

- Requirements

- None

- Planning Assumptions

- None

#### **4.2.4.6.4 Project Safety Authorization Basis/NEPA and Permits**

#### **4.2.4.6.5 Tri-Party Agreement Requirements**

- None

#### **4.2.4.6.6 Interfaces**

#### **4.2.4.6.7 Requirements References**

- None

#### **4.2.4.7 Accelerated Deactivation**

##### **4.2.4.7.1 Project Description Summary**

The purpose of this project is to deactivate all Hanford contaminated facilities outside the 300 Area that are not currently being deactivated or scheduled for deactivation under another PBS. Initially, those facilities that no longer have a current mission and those expected to no longer have a viable mission after FY 2000 will be deactivated. All other included radiologically and hazardous contaminated facilities expected to have viable missions after FY 2000 will be



deactivated upon their mission completion (which could extend 20 years or more into the future). Since facilities in this PBS are contaminated and many are beyond their intended design life, deactivation of these facilities reduces risk to the public, environment and on-site workers by removing and/or stabilizing radiological and hazardous contamination and placing these high risk facilities in a low risk "caretaker" status until they can be demolished.

There are 32 non-mobile contaminated facilities that are assumed to either currently no longer have a viable mission or are expected to no longer have viable missions after FY 2000. Four facilities were transferred into the PBS in FY 97 (222T, 222U, 231-Z and 2704C). Four more are expected in FY 98 or FY 99 (242B, 242BL, 2718 and 209E). The remaining 24 (1208, 1226, 1227, 1253, 1517N, 151B, 1720DR, 2711E, 2711EA, 2713W, 2715E, 2715EA, 2715EC, 2715ED, 2715M, 6652H, 275UR, 4722C, 6291, 212P, 748, 224T, 242S, and 242T) are expected to be transferred between FY 00 and FY 10. There are another 16 non-mobile contaminated buildings (242A, 200TEDF, 200LERF, 200ETF, RHT + Large Eqpt. facility, SW Retrieval facility, WRAP 1, and 222S facilities) that have viable missions beyond FY 2010. These facilities will be transferred between FY 14 and FY 35 as their missions end.

Most of the facilities covered in this PBS are not in close proximity to the Columbia River or other areas occupied by the general public. However, the facilities are contaminated with both radiological and hazardous materials. Contaminants of concern include cesium, strontium, uranium, mixed fission products, fuels processing and chemical contamination that includes various acids and bases, and a wide variety of cleaning agents and solvents. Many of these facilities have also exceeded their design life. A fire, containment system failure or structural collapse due to natural causes or facility deterioration could result in a release of contaminants to the environment via air, ground and water pathways overexposing on-site workers. Most areas outside these facilities already contain radiological and hazardous contaminants in the soil and an additional release of contaminants would further complicate and increase the scope and risks of future remediation efforts.

#### 4.2.4.7.2 Life-Cycle Material and Waste Flow

**Table 4-49 Accelerated Deactivation Waste/Material Flow (In)**

Major Facility	Category	Period	Value	Units
PUREX	RH LLW III	2003 - 2003	1.5	cubic meters
	RH TRUM	2000 - 2001	6.2	cubic meters

**Table 4-50 Accelerated Deactivation Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
T-Plant Canyon Facility	CH LLW I	2007 - 2009	79.9	cubic meters
	CH TRUM	2007 - 2009	39.8	cubic meters

#### 4.2.4.7.3 Facility Life-Cycle Requirements

The planning assumptions contained in this section have been extracted from the Hanford Strategic Plan (DOE.RL.96.92), and the Comprehensive Land Use Plan (DOE.EIS.222.D).

- Requirements

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- The draft Hanford Air Operating Permit contains terms and conditions of the Washington Department of Ecology Air Operating Permit (permit number not established, application DOE/RL-95-07), and the Washington Department of Health Hanford Site Radioactive Air Emissions License No. FF-01.
  - Central Plateau gaseous effluent releases shall be monitored
  - Central Plateau liquid effluent releases shall be monitored
  - Safe Operation of LERF - Operation and maintenance of the LERF shall be in accordance with LERF Safety Analysis Report (Woeland 1991)
  - Solids shall not be allowed to accumulate in the LERF basins which may require special cleanout actions. [LERF Treatment Exemption (95-LEP-015), 40 CFR 268.4.]
  - Waste will be stored in LERF for up to one year prior to treatment in the ETF. [LERF Treatment Exemption (95-LEP-015), 40 CFR 268.4]
  - Utilize the T-Plant complex as a central decontamination facility on the Hanford Site. This facility is permitted by the Washington Department of Ecology (Ecology) as a RCRA treatment and storage unit.
  - Operate treatment facilities and systems for liquid effluents.
  - Manage current and future Hanford Site liquid effluents, including collecting, treating, and disposing of liquid effluent wastes. The program uses an integrated liquid effluent treatment system with a combination of local and central treatment systems to achieve cost-effective liquid effluent disposal. Current liquid effluent facilities include the 200 Area Liquid Effluent Retention Facility, 200 Area Treated Effluent Disposal Facility (TEDF), 200 Area Effluent Treatment Facility, 300 Area TEDF, and the 340 facility.
- Planning Assumptions
    - Central Plateau high cost surplus facilities shall be transitioned to a low cost, stable, deactivated condition
    - Nuclear materials shall be consolidated in the Central Plateau for interim storage pending ultimate disposition.
    - Central Plateau facilities shall be maintained within the approved safety envelope
    - T Plant shall be surveilled and maintained within the approved safety envelope
    - 242A Evaporator shall be operated within the approved safety envelope
    - 242A Evaporator shall be maintained within the approved safety envelope
    - 222-S shall be operated and maintained within the approved safety envelope.
    - PWR fuel shall be safely stored in T Plant
    - The WRAP facility shall be operated and maintained within the approved safety envelope.
    - 224-T TRUSAF shall be maintained within the approved safety envelope.
    - Operations and maintenance of the LERF shall be in accordance with the Liquid Effluent Retention Facility Final Hazard Categorization Report, HNF-SD-WM-SAD-040, and the Liquid Effluent Retention Facility Auditable Safety Analysis, HNF-SD-LEF-ASA-002.
    - 200 Area ETF shall be maintained within the approved safety envelope.
    - 200 Area ETF shall be operated within the approved safety envelope.

#### **4.2.4.7.4 Project Safety Authorization Basis/NEPA and Permits**

Existing facility safety authorization basis documentation shall be examined before

commencement of deactivation activities to ensure a proper safety authorization basis is in place to allow economical, efficient deactivation.

#### 4.2.4.7.5 Tri-Party Agreement Requirements

- TPA.M.17.0.B Complete implementation of "Best Available Technology/All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment (BAT/AKART) for all phase II liquid effluent streams at the Hanford Site. [Due Date: 1/31/98.]
- TPA.M.32.3 Complete T Plant tank actions. [Due Date: 9/30/1999]

#### 4.2.4.7.6 Interfaces

**TABLE 4-51 Accelerated Deactivation Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Solid Waste Storage & Disposal	RL-WM03	Receives T Plant Canyon Deactivation, CH-LLW-I Receives T Plant Canyon Deactivation, CH-TRUM
Solid Waste Treatment	RL-WM04	Provides Deactivated T-Plant Facility Provides Excess 2706-T Provides Excess T-Plant Facility Provides Excess WRAP Facility Provides Safe & Compliant Deactivated T-Plant Facility Provides Safe & Compliant Excess T-Plant Facility Provides Safe & Compliant Stabilized T-Plant Facility Provides Stabilized T-Plant Facility Receives Deactivated T-Plant Facility Receives Safe & Compliant Deactivated T-Plant Facility Receives Safe & Compliant Excess T-Plant Facility Receives Safe & Compliant Stabilized T-Plant Facility Receives Stabilized T-Plant Facility
Liquid Effluents	RL-WM05	Provides Excess 200 Area ETF Provides Excess 200 Area LERF Provides Excess 242-A Evaporator System
Analytical Services	RL-WM06	Provides Safe & Compliant Deactivated 222-S Laboratory Facility Provides Safe & Compliant Excess 222-S Laboratory Facility Provides Safe & Compliant Stabilized 222-S Laboratory Facility Receives Analytical Laboratory Samples from 200-TP Receives Deactivated 222-S Laboratory Receives In-Field Laboratory Samples from 200-TP Receives Stabilized 222-S Laboratory
324/327 Facility Transition	RL-TP08	Provides 324 Facility Dispersables Provides 324 Facility Tank Waste Provides 327 Facility Ion Exchange Column
Decontamination & Decommissioning	RL-ER06	Receives Deactivated 200 Area ETF Receives Deactivated 200 Area LERF Receives Deactivated 242-A Evaporator Receives Safe & Compliant Deactivated 222-S Laboratory Facility Receives Safe & Compliant Deactivated 2706-T Receives Safe & Compliant Deactivated M-33/M-91 Facility Receives Safe & Compliant Deactivated T-Plant Facility Receives Safe & Compliant Deactivated Transuranic Storage and Assay Facility Receives Safe & Compliant Deactivated WRAP Module 1

#### 4.2.4.7.7 Requirements References

- 95-LEP-015, LERF Treatment Exemption"
- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-92, Hanford Strategic Plan"
- WHC-SD-W105-SAR-001, LERF Safety Analysis Report"

#### **4.2.4.8 324/327 Facility Transition**

##### **4.2.4.8.1 Project Description Summary**

###### **324/327 Project Technical Baseline (RL-TP08)**

The purpose of the 324/327 Buildings Stabilization/Deactivation Project is to establish a passively safe and environmentally secure configuration of the 324 and 327 Buildings at the Hanford Site, and to preserve that configuration for a minimum of 10 years (deactivation planning basis only). The 10-year horizon will be used to predict future maintenance requirements and represents the typical time span needed to define, authorize, and initiate the follow-on decontamination and decommissioning (D&D) activities. Actual documentation may vary.

The project removes, reduces, and/or stabilizes the radioactive and the nonradioactive hazardous materials within the 324 and 327 Facilities. Completing these activities reduces hazards to workers and the public and allows for a reduced level of surveillance during the extended surveillance period following deactivation. Worker health and safety is a primary goal of stabilization and deactivation. A Voluntary Protection Program has been implemented. Deactivation places the plant in a condition that no longer requires high levels of surveillance and maintenance (S&M) to maintain safe conditions.

When fully deactivated, the facilities will be unoccupied, empty, and locked. The facilities will contain no active systems or utilities except for surveillance lighting and any necessary monitoring instrumentation.

327 Facility is a Discovery Site and is not yet in the Waste Identification Database System (WIDS).

###### **324/327 Building Stabilization/Deactivation Project Organization Mission (RL-TP08)**

The 324 Facility Stabilization Project mission is to achieve a safe, stable, and environmentally sound facility condition by stabilization and deactivation, that would be suitable for an extended period of Surveillance and Maintenance (S&M) pending final decommissioning, as quickly and economically as possible, and to place the facility in a condition acceptable for transfer from the Office of Facility Transition and Management (EM-60) to the Office of Environmental Restoration (EM-40). Final decontamination and decommissioning will be accomplished after transfer to the Office of Environmental Remediation (EM-40).

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The 324 Facility deactivation phase will also include closure actions for areas of the 324 Facility in accordance with DOE/RL 96-73.

**324/327 Facility Transition Project Principle End Point Targets**

Reduce the annual 324/327 Surveillance and Maintenance costs for each building. (Current baseline is \$400,000 for both facilities).

Accomplish the deactivation and placement of the 324 and 327 Buildings into low-cost S&M by September 7, 2007.

Facility configuration will be established such that limited active systems are not required for safety and environmental confinement.

Deactivation will be performed in a way that will result in a redesignation of the 324 and 327 Buildings as radiological facilities in accordance with the criteria and guidelines provided in DOE-STD-1027, Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports.

Closure activities will be completed for the radiochemical engineering cells (REC) and high level vault (HLV) + LLV + associated areas to meet current Tri-Party Agreement (TPA) commitments.

**324/327 Facility Transition Project Supported End Point Targets**

The acceptable end state is defined by the following programmatic and physical results.

**Programmatic:**

- The building stabilization phase was completed with termination of operations, establishment of a Surveillance and Maintenance (S&M) program, development of facility-specific end points, and initiation of the deactivation Phase.
- The deactivation phase resulted in the successful completion and acceptance of the end-points established for each facility.
- The 324/327 Buildings were placed in a condition acceptable for transfer from the Office of Facilities Transition and Management (EM-60) to the Office of Environmental Restoration (EM-40).
- The facility stabilization activities placed the facility in a condition that achieves a "radiological facility" category (DOE-STD-1027).
- A memorandum of agreement (MOA) between BWHC and BHI is approved and issued that delineates and transfers responsibilities for the future building S&M activities to BHI.
- Stabilization activities that required removal and disposal of radioactive, dangerous, and mixed waste (e.g., during tank flushing, excessing, RCRA permitting and waste disposal) complied with Federal, State, and Local regulations and requirements.
- The facility is maintained in a safe and stable condition by means of a methodical surveillance and maintenance (S&M) program.
- Material accountability, such as the SNM inventory, was reconciled.
- Facility structural integrity was verified for a minimum of five years and documented in the facility turnover package.
- Legacy equipment to remain with the building was identified, documented in the turnover package, and abandoned in place.

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- The facility was placed in a physical condition adequate to contain and monitor any radioactive contamination.
- The "as left" radiation contamination survey of the facility and surrounding areas was included in the deactivation records as part of the turnover package.
- The SNM, fuels, and solid and liquid radioactive, hazardous, and mixed waste inventories were removed from the facility, or exceptions of nuclear and hazardous material remaining in the facility were identified and characterized by location, type, and quantity. Controls for such materials were documented and approved for which an end condition could not be determined.
- The building was left unoccupied, empty, locked, and maintained with minimum entry requirements pending decontamination and decommissioning.
- The building personnel have been relocated
- Radioactive, dangerous, and mixed wastes were removed using Reasonable Best Effort Methodology and disposed of in compliance with applicable regulations and requirements. Reasonable Best Effort is characterized by reducing parameters to "As Low As Economically Achievable" (ALEA) and implies use of a "Best Management Practices" approach to reach realistic, logical, and cost-effective end states or conclusions.

Physical:

- Nuclear material was removed to the necessary extent to allow the 324/327 facilities to achieve a "radiological facility" category (DOE 1992).
- Hazards, nuclear and non-nuclear, were eliminated or reduced by removing, isolating, draining, and minimizing hazardous material.
- Radiation fields were eliminated, reduced, shielded or isolated, with proper radiological posting of remaining radiation fields.
- Radioactive contamination was removed, reduced, or isolated/contained to mitigate and prevent spreading.
- Housekeeping was performed and removal of unattached (e.g., portable and/or mobile) material, equipment, office furniture and files, and chemicals was completed.
- Remaining facility hazards were isolated and contained from personnel and the environment using blanking, plugging, covering, removal, screening, and sealing of doors, windows, pipe penetrations, holes, drains, etc.
- Facility doors were locked from the inside except those required for entrance by surveillance personnel.
- To maximum extent possible, unsurveilled areas of the facility were sealed to prevent unauthorized access.
- Areas requiring access for inspection were sufficiently decontaminated.
- Installation of instrumentation such as alarms, windows in ancillary buildings, and surveillance lighting was completed to enable monitoring, surveillance, and control of the facility pending final disposition.
- Structural repairs, roof sealing, and facility modifications (e.g, upgrade the of the ventilation system) were completed to establish a safe and stable facility.
- Proper equipment labeling was provided to enable future D&D activities.
- Chemical and radioactive inventories were stabilized to minimize facility risks and allow for reduced S&M.
- Mobile quantities of SNM and SNF and related items were removed.
- The facility process vessels and tanks were emptied/drained and flushed with some process equipment disassembled to remove inventory.
- Failed equipment/jumpers were removed or stabilized in place.
- Piping to external facility interfaces was isolated unless deemed necessary to support D&D.

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- Facility supplies were removed.
- Facility high-radiation areas were shielded to enable S&M and D&D activities.
- Significant SNM was removed from facility laboratory hoods.
- Facility laboratory hoods were decontaminated/isolated and hood exhaust ductwork was isolated/contained.
- Facility floor drains were plugged, removed, or isolated.
- Facility room floors, wall, and ceiling surfaces were decontaminated of hazardous and radioactive materials and resurfaced as necessary to enable S&M and D&D activities.
- Facility system headers were drained and flushed as necessary to remove hazardous and radioactive materials.
- Facility friable asbestos materials were sealed/stabilized to enable S&M and D&D activities.
- Facility laboratory gloveboxes were decontaminated and residual contamination fixed to enable S&M and D&D activities.
- Facility liquid effluent streams were eliminated.
- Facility organic solvents, acid solutions, recovered acid, and chemical and acid inventories were removed.

Utilities/Instrumentation Systems:

- The facility contains no active systems or utilities with the exception of the heating, ventilation, and air conditioning (HVAC) system as required to maintain the final confinement barrier, and systems required for monitoring and emission control.
- Systems required for monitoring and emission control, protection of surveillance personnel, the general public and environment, and vital equipment were sustained.
- Systems required to respond to emergency conditions expected in the facility's deactivated state and to prevent structural degradation were sustained.
- Unnecessary utilities and HVAC system lines were isolated.
- Facility instrument and equipment controls de-energized.
- Facility steam, water, and compressed air service was eliminated.
- Facility emergency electrical loads were minimized or eliminated.
- Facility electrical service was provided for selected lighting panels as necessary to support subsequent S&M and D&D activities.
- Facility monitoring functions consolidated at a single monitoring location.
- Facility security systems and procedures are adequate to prevent unauthorized entry.

The technical strategy for the 324 Facility includes the following objectives:

- Establish a 324 Facility configuration such that active systems are not required for safety and environmental confinement.
- Perform stabilization in a manner that will result in a redesignation of the 324 facility as a "radiological facility" in accordance with the criteria and guidelines provided in DOE-STD-1027, Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports.
- Complete closure activities per DOE/RL 96-73 to meet current TPA commitments.
- Protect the environment from contamination during any stabilization activities and associated structure upgrades and modifications required to complete the project goals.
- Sustain the systems required for protection of surveillance personnel, the general public and environment, and vital equipment.
- Sustain the systems required to respond to emergency conditions expected in the facility's deactivated state and to prevent structural degradation.
- Ensure that hazards to personnel or the environment are controlled through partial closure, removal, isolation, mitigation, or stabilization of such hazards.

- Ensure structures be maintained in a safe condition with threats to human health and safety removed or appropriate compensatory measures (barriers, access controls, administrative controls, etc.) implemented.

The technical strategy for 327 Facility includes the following objectives:

- Establish a 327 Facility configuration such that active systems are not required for safety and environmental confinement.
- Perform stabilization in a manner that will result in a redesignation of the 327 facility as a "radiological facility" in accordance with the criteria and guidelines provided in DOE-STD-1027, Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports.
- Protect the environment from contamination during any stabilization activities and associated structure upgrades and modifications required to complete the project goals.
- Sustain the systems required for protection of surveillance personnel, the general public and environment, and vital equipment.
- Sustain the systems required to respond to emergency conditions expected in the facility's deactivated state and to prevent structural degradation.
- Ensure that hazards to personnel or the environment are controlled through partial closure, removal, isolation, mitigation, or stabilization of such hazards.
- Ensure structures be maintained in a safe condition with threats to human health and safety removed or appropriate compensatory measures (barriers, access controls, administrative controls, etc.) implemented.

#### **4.2.4.8.2 Life-Cycle Material and Waste Flow**

**Table 4-52 324/327 Facility Transition Waste/Material Flow (Out)**

<b>Major Facility</b>	<b>Category</b>	<b>Period</b>	<b>Value</b>	<b>Units</b>
324 Facility	CH LLMW III	2000 - 2007	27.2	cubic meters
	CH LLW I	2000 - 2007	142.0	cubic meters
	CH LLW III	2000 - 2006	169.0	cubic meters
	CH TRU	2001 - 2002	0.514	cubic meters
	CH TRUM	2001 - 2006	1.54	cubic meters
	HAZ	2000 - 2006	67.6	cubic meters
	Industrial Waste Water	2000 - 2007	190000	cubic meters
	RH LLW III	2000 - 2007	108.0	cubic meters
	RH TRU	2000 - 2007	121.0	cubic meters
	RH TRUM	2000 - 2007	37.5	cubic meters
	Spent Nuclear Fuel (SNF)	2002 - 2002	2.3	MTHM
327 Facility	HAZ	2000 - 2007	11.0	cubic meters
	Industrial Waste Water	2000 - 2007	159000	cubic meters
	RH LLW III	2003 - 2003	1.5	cubic meters

#### **4.2.4.8.3 Facility Life-Cycle Requirements**

The planning assumptions contained in this section have been extracted from the Hanford Strategic Plan (DOE.RL.96.92), and the Comprehensive Land Use Plan (DOE.EIS.222.D).

- Requirements



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- Section V of the Clean Air Act of 1977 (CAA), adopted in the 1990 amendments to the CAA, establishes a federal permitting program, which will be administered by the states. Any "major source" of criteria pollutants or of hazardous air pollutants will be required to obtain a permit to operate the source.
- The Clean Water Act of 1977 (CWA) requires any source that discharges a "pollutant" into a surface water body to obtain and operate in compliance with a National Pollution Discharge Elimination System (NPDES) permit. The CWA includes radioactive materials in its definition of pollutant (33 U.S.C. 1362 (6)). However, the EPA has interpreted "pollutant" to exclude radioactive materials regulated under the Atomic Energy Act of 1954 (AEA). The CWA applies to naturally occurring and accelerator-produced radioisotopes; it does not apply to source, special, or byproduct materials as the AEA defines those terms. Currently, four effluent streams are discharged from the 324 and 327 Facilities.
- Reduce facility cost to the minimum needed to support surveillance and maintenance pending final facility decontamination and decommissioning.
- Complete the 324 Facility special case waste (SCW) assessment in support of 324 closure
- Close the REC, the high-level vault (HLV) and low-level vault (LLV), the piping, and the associated areas in accordance with DOE/RL 96-73.
- Accomplish stabilization and deactivation activities to place the 327 Facility into low cost Surveillance and Maintenance, to achieve a 327 Facility safety class designation of "radiological facility" using the STD 1027 standard and implementation guide, and to place the facility in a condition acceptable for transfer from the Office of Facility Transition and Management (EM-60) to the Office of Environmental Restoration (EM-40) by Sept 7, 2007.
- Accomplish stabilization and deactivation activities to place the 324 Facility into low cost Surveillance and Maintenance, to achieve a 324 Facility safety class designation of "radiological facility" using the STD 1027 standard and implementation guide, and to place the facility in a condition acceptable for transfer from the Office of Facility Transition and Management (EM-60) to the Office of Environmental Restoration (EM-40) by Sept. 7, 2007.
- Reduce the annual surveillance and maintenance costs for both the 324 and 327 Facilities to less than \$400,000 (BWHC 1997).
- Reduce the annual surveillance and maintenance costs for both the 324 and 327 Facilities to less than \$400,000 (BWHC 1997).
- Establish a passively safe (i.e., limited active systems required) and environmentally secure facility configuration, including implementation of contamination controls, for safety and environmental confinement that may be retained through the post-deactivation period until final facility disposition activities begin.
- Establish a passively safe (i.e., limited active systems required) and environmentally secure facility configuration, including implementation of contamination controls, for safety and environmental confinement that may be retained through the post-deactivation period until final facility disposition activities begin.
- 324 B Cell dispersible material shall be containerized and removed by November 30, 2000.
- 324 B Cell excess equipment shall be removed by November 30, 2000.
- 324 Building Nuclear Materials shall be dispositioned.
- South 600 Area liquid effluent releases shall be monitored
- 324 building shall be maintained within the approved safety envelope.
- 324 building shall be operated within the approved safety envelope.
- 324 building B Cell safety issues shall be resolved by Dec 1998.

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- South 600 area cesium capsules, pellets, and powders shall be repackaged as necessary.
- Protect workers, the public, and the environment during 324 stabilization and deactivation activities.
- Protect workers, the public, and the environment during 327 stabilization and deactivation activities.
- Comply with regulations and requirements during 327 stabilization and deactivation activities.
- Reduce 327 facility cost to the minimum needed to support surveillance and maintenance pending final facility decontamination and decommissioning.
- Facilitate 327 Facility S&M to ensure that remaining process equipment does not fail and release any residual materials.
- Establish baseline data for 327 S&M to enable record keeping to identify systems and/or components that may be deteriorating and to advise decommissioning personnel about the potential hazards.
- Hazardous and radioactive materials shall be removed from the 327 facility or reduced and stabilized sufficiently to reduce hazards to workers and the public, to ensure long-term facility safety and regulatory compliance, to reduce the level of required surveillance during the extended surveillance period following deactivation, to enable plant classification as a "radiological facility", and to enable subsequent successful D&D.
- Promote facility decommissioning by preparing the 327 facility to be one that is cleaned of process materials to the greatest extent possible.
- Empty and flush 327 process systems to eliminate the need to generate RCRA permits for storage tanks.
- Establish 327 hazardous material inventories to ensure the location and amount of all material is known.
- Remove and dispose of filters and other such equipment that contain radioactive or hazardous materials consistent with 327 facility operation requirements.
- Conduct 327 stabilization activities with consideration for waste minimization and pollution prevention.
- Remove fissionable material to the extent required to enable the 327 facility hazard category to be reduced from a "fissionable material facility" to one of a "radioactive facility."
- Eliminate or reduce 327 facility hazards, nuclear and non-nuclear.
- Eliminate, shield, or isolate radiation fields to enable 327 S&M and D&D activities.
- Reduce 327 facility contamination and prevent its spread or migration.
- Accomplish waste disposal during 327 stabilization and deactivation activities in compliance with applicable laws and regulations.
- Isolate and contain residual, potentially hazardous materials or conditions in 327 facility.
- Provide capability for ongoing monitoring and control of the 327 facility.
- Provide additional 327 facility modification or refurbishment to support future work (S&M or D&D)
- Provide 327 turnover documentation and equipment labeling.
- Conducted a facility assessment (i.e., characterize the hazards, risks, liabilities, and costs) to provide a technical basis for future 324 Facility Stabilization Project decisions.
- Comply with regulations and requirements during 324 stabilization and deactivation activities.
- Facilitate 324 Facility S&M to ensure that remaining process equipment does not fail and release any residual materials.

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- Establish baseline data for 324 S&M to enable record keeping to identify systems and/or components that may be deteriorating and to advise decommissioning personnel about the potential hazards.
- Hazardous and radioactive materials shall be removed from the 324 facility or reduced and stabilized sufficiently to reduce hazards to workers and the public, to ensure long-term facility safety and regulatory compliance, to reduce the level of required surveillance during the extended surveillance period following deactivation, to enable plant classification as a "radiological facility", and to enable subsequent successful D&D.
- Promote 324 facility decommissioning by preparing the facility to be one that is cleaned of process materials to the greatest extent possible.
- Empty and flush 324 facility process systems to eliminate the need to generate RCRA permits for storage tanks.
- Establish hazardous material inventories to ensure the location and amount of all material is known in 324 facility.
- Remove and dispose of filters and other such equipment that contain radioactive or hazardous materials consistent with 324 facility operation requirements.
- Conduct 324 stabilization activities with consideration for waste minimization and pollution prevention.
- Remove radioactive material to the extent required to enable the 324 facility hazard category to be reduced from a "fissionable material facility" to one of a "radioactive facility."
- Conducted a facility assessment (i.e., characterize the hazards, risks, liabilities, and costs) to provide a technical basis for future 324 Facility Stabilization Project decisions.
- Eliminate or reduce 324 facility hazards, nuclear and non-nuclear.
- Eliminate, shield, or isolate radiation fields to enable 324 S&M and D&D activities.
- Reduce 324 facility contamination and prevent its spread or migration.
- Accomplish waste disposal during 324 stabilization and deactivation activities in compliance with applicable laws and regulations.
- Isolate and contain residual, potentially hazardous materials or conditions in 324 facility.
- Provide capability for ongoing monitoring and control of the 324 facility.
- Provide additional 324 facility modification or refurbishment to support future work (S&M or D&D).
- Provide 324 turnover documentation and equipment labeling.
- National Environmental Protection Act/State Environmental Policy Act Status and Strategy. The NEPA is a review and documentation process promulgated under 10 CFR 1021 and 40 CFR 1508.27 and also executed pursuant to DOE Order 5440.1E, Chapter V. This documentation requires that all federal agencies identify the environmental impacts associated with the proposed remedial actions that may significantly affect the environment.
- National Historic Preservation Act (NHPA) provisions found in 36 CFR 800, "Determination of Eligibility for Inclusion in National Register," require federal agencies to survey all lands and structures under their control, and to identify and evaluate all properties for eligibility to be listed in the National Register of Historic Places.
- RCRA, as amended (42 U.S.C., sec. 6901 et seq. and implemented in Washington State through Washington Administrative Code [WAC] 173-303), regulates the generation, transportation, storage, treatment, and disposal of solid and hazardous waste. The RCRA provisions govern cleanup of hazardous waste constituents released to the environment from hazardous or solid waste management units.

- Planning Assumptions

- High cost surplus facilities and systems shall be transitioned to a low cost, stable, deactivated condition.
- Facilities and systems shall be made available for other uses.
- Facilities shall be transitioned to the surveillance and maintenance phase when no longer required to support the site mission.
- 324 building shall be transitioned to the surveillance and maintenance phase.
- 327 building shall be transitioned to the surveillance and maintenance phase
- 327 Building Nuclear Material shall be dispositioned.
- 327 building shall be maintained within the approved safety envelope.
- 327 building shall be operated within the approved safety envelope.
- 300 Area SNM contained in various buildings shall be surveilled and maintained within the approved safety envelope.
- SNM contained in the 327 Building shall be surveilled and maintained within the approved safety envelope.
- 300 Area nuclear materials shall be remediated.

#### **4.2.4.8.4 Project Safety Authorization Basis/NEPA and Permits**

The current safety authorization basis for the 324 Buildings is contained in HNF-SD-SPJ-SAR-001 Rev1b, 2/10/99, 324 Building Safety Analysis Report. The safety authorization basis for the 327 Buildings is contained in HNF-SD-SPJ-SAR-002 Rev1b, 2/10/99, 327 Building Safety Analysis Report.

These buildings shall be operated in accordance with 324 and 327 Operations manuals.

Environmental, safety, and health requirements for the 324 and 327 Buildings are contained in the S/RID for 324 and 327.

#### **4.2.4.8.5 Tri-Party Agreement Requirements**

- TPA.M.89.0 TPA Milestone M-89 complete closure of non-permitted mixed waste units in the 324 Building REC B-cell, REC D-cell and high level vault. [Due Date: tbd by Ecology]
- TPA.M.89.1 TPA Milestone M-89-01, completed September 5, 1996, required removal of 324 Facility HLV Tank mixed waste (e.g., TK-104, TK-105, and TK-107) with the exception of residues which may remain following flushing and draining to the extent possible.
- TPA.M.89.1.A TPA Milestone M-89-01A, completed March 31, 1995, identifies the HLV tanks that contained mixed waste as tanks 104, 105, and 107, and directs the U.S. Department of Energy, Richland Operations Office (DOE-RL) to flush and drain these tanks.

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- TPA.M.89.2 TPA Milestone M-89-02, due November 30, 2000, requires removal of 324 facility B-Cell mixed waste and equipment. Actions under this milestone include containment and removal of all B Cell dispersible materials, excess equipment and debris. Containerized MW will be managed in compliance with Chapter 173.303 WAC, thereby reducing risks to human health and the environment. Any remaining residues following removal actions will be managed through the final closure process. USDOE's 324 Building Rec B Cell clean-out project (BCCP) will be used as a guide for containerizing dispersible MW and removing unnecessary equipment and materials from B-Cell.
- TPA.M.89.5 TPA Milestone M-89-05, completed June 30, 1998, required completion of the 324 facility special case waste (SCW) assessment in support of 324 closure.
- TPA.M.92.1 Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for sitewide consolidation, and storage prior to commercial use, or treatment and/or repackaging by DOE TWRS.  
 Completion of this milestone requires the completion of commercial disposition and/or all construction of internal/external facility(s) modifications, and startup activities necessary for the treatment/processing, repackaging (if necessary), and storage of Cs/Sr (to include unencapsulated salts) located at the (1) "ARECO" facility in Lynchberg VA (25 capsules), (2) Hanford 300 Area (13 capsules at the 327 pool facility and excess Cs/Sr salts at the 324 facility), and (3) Hanford Waste Encapsulation and Storage Facility (WESF) in the 200 East Area. [Due Date: 12/31/2009]
- TPA.M.92.4 TPA Milestone M-92-04, Completed December 1998, required transfer of all 300 Area Cs/Sr to WESF and/or an approved storage location by 12/31/98.
- TPA.M.92.12 TPA Milestone M-92-12 complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for consolidated storage prior to disposal of Hanford Site 300 Area Special Case Waste (SCW). [Due Date: 9/30/2006]
- TPA.M.92.13 TPA Milestone M-92-13, Submit 300 Area PMP to Ecology pursuant to Agreement Action Plan, Section 11.5 [Due Date: 30 Sep 2000]
- TPA.M.92.14 TPA Milestone M-92-14 Complete removal and transfer, and initiate storage of Phase I 300 Area SCW and materials. Phase I inventory will consist of, at minimum, one-third the total curie content of all 300 Area SCW by September 30, 2002.
- TPA.M.92.15 TPA Milestone M-92-15 Complete removal and transfer, and initiate storage of Phase II 300 Area SCW and materials. Phase II inventory will consist of, at minimum, half of the remaining curie content of 300 Area SCW waste and materials by September 30, 2004.
- TPA.M.92.16 TPA Milestone M-92-16 complete removal and transfer, and initiate storage of Phase III 300 Area SCW and materials by September 30, 2006.

#### 4.2.4.8.6 Interfaces

**TABLE 4-53 324/327 Facility Transition Interfaces**

Project Title	Project Number	Interface
Hazardous Waste Disposal Contracts	EXTERNAL	Receives 324 Facility, HAZ Receives 327 Facility Hazardous Waste

**TABLE 4-53 324/327 Facility Transition Interfaces (Continued)**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Tank Farm Operations	RL-TW03	Receives 324 Facility HLW Receives 327 Facility Radioactive/Mixed Liquid Waste to DSTs
Solid Waste Storage & Disposal	RL-WM03	Receives 324 Facility, CH LLMW III Receives 324 Facility, CH LLW I Receives 324 Facility, CH LLW III Receives 324 Facility, CH-TRU Receives 324 Facility, CH-TRUM Receives 324 Facility, RH-TRU Receives 324 Facility, RH-TRUM
Liquid Effluents	RL-WM05	Receives 324 Building Process Sewer Industrial Waste Water Transfer Receives 324 Potentially Contaminated Waste Water Receives 327 Building Process Sewer Industrial Waste Water Transfer
Analytical Services	RL-WM06	Provides Excess 327 Facility
Spent Nuclear Fuel Project	RL-WM01	Receives 324 Spent Nuclear Fuel
Canister Storage Building Operations	RL-WM02	Receives 324 Spent Nuclear Fuel
Accelerated Deactivation	RL-TP10	Receives 324 Facility Dispersables Receives 324 Facility Tank Waste Receives 327 Facility Ion Exchange Column
300 Area Source Remedial Action	RL-ER03	Receives Deactivated 327 Facility

#### **4.2.4.8.7 Requirements References**

- 10 CFR 1021, NEPA Implementing Procedures"
- 36 CFR 800, Protection of Historic and Cultural Properties"
- 42 USC 6901, et seq., Resource Conservation and Recovery Act of 1976 (RCRA)"
- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-89-10, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Revision 5"
- DOE/RL-96-73, The 324 Radiochemical Engineering Cells, High-Level Vault , Low-Level Vault, and Associated Areas Closure Plan"
- DOE/RL-96-92, Hanford Strategic Plan"
- HNF-IP-1289, 324/327 Building Stabilization Project Management Plan "
- HNF-IP-2118, 327 Building End Point Specification Document"
- HNF-IP-2119, 324 Building End Point Specification Document"
- PL 92-500, Federal Water Pollution Control Act Amendments of 1972 (Clean Water Act)"
- RCW 70.94, Washington Clean Air Act"

#### **4.2.4.9 Hanford Surplus Facility Prog 300A Revitalization**

##### **4.2.4.9.1 Project Description Summary**

As a result of Hanford site mission change from defense production to cleanup and downsizing, the 300 area has a number of excess facilities requiring disposition beyond simple removal.

Seven buildings were assigned to the Facility Stabilization Project in FY1998 and the minimum

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surveillance and maintenance for them is funded from this PBS. They are 321, 321B, 321C, 321D, 3706, 3706A and 377.

The purpose of this project is to provide a path forward for the seven facilities currently assigned to this PBS. In future years Miscellaneous Engineering and radiological facilities, 325, 326, 329, 306W and the 331 facilities are planned to be transferred to this PBS. The path forward for these facilities includes:

- Monitoring and maintenance of facilities and grounds as required to assure containment of the radioactive and hazardous material.
- Stabilization and deactivation of contaminated facilities.
- Alternative cleanup of facilities, removing the legacy and liabilities of DOE operations ONLY TO THE EXTENT NECESSARY for facility and area alternative use.
- Final disposition of facilities including sale, dismantlement for salvage, demolition, and alternate use of facilities where facility re-use is economically and practically feasible.

#### **4.2.4.9.2 Life-Cycle Material and Waste Flow**

**Table 4-54 Hanford Surplus Facility Prog 300A Revitalization Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
306W	Industrial Waste Water	2000 - 2007	99400	cubic meters
Misc Radiological Facilities	Industrial Waste Water	2000 - 2030	1740000	cubic meters

#### **4.2.4.9.3 Facility Life-Cycle Requirements**

The planning assumptions contained in this section have been extracted from the Hanford Strategic Plan (DOE.RL.96.92), and the Comprehensive Land Use Plan (DOE.EIS.222.D).

- Requirements
  - South 600 Area gaseous effluent releases shall be monitored.
- Planning Assumptions
  - High cost surplus facilities and systems shall be transitioned to a low cost, stable, deactivated condition.
  - Facilities and systems shall be made available for other uses.
  - Facilities shall be transitioned to the surveillance and maintenance phase when no longer required to support the site mission.
  - 300 Area facilities shall be surveilled and maintained within the approved safety envelope.
  - 325 facility shall be maintained within the approved safety envelope.
  - 325 facility shall be operated within the approved safety envelope.
  - 326 facility shall be maintained within the approved safety envelope.
  - 326 facility shall be operated within the approved safety envelope.
  - 329 facility shall be maintained within the approved safety envelope.
  - 329 facility shall be operated within the approved safety envelope.
  - 306W facility shall be maintained within the approved safety envelope.
  - 306W facility shall be operated within the approved safety envelope.
  - 331 facility shall be maintained within the approved safety envelope.

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- 331 facility shall be operated within the approved safety envelope.

#### **4.2.4.9.4 Project Safety Authorization Basis/NEPA and Permits**

Existing facility safety Authorization Basis documentation shall be reviewed/revised before work execution to ensure the proper safety Authorization Basis is in place to support economical and efficient project execution.

#### **4.2.4.9.5 Tri-Party Agreement Requirements**

- None

#### **4.2.4.9.6 Interfaces**

**TABLE 4-55 Hanford Surplus Facility Prog 300A Revitalization Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Liquid Effluents	RL-WM05	Receives 306W Industrial Waste Water Transfers Receives Misc Rad Facility Industrial Waste Water Transfers
Surveillance & Maintenance	RL-ER05	Receives Deactivated 331 Facility Receives Safe & Compliant Deactivated Misc Rad Facility Receives Safe & Compliant Deactivated 306W Facility Receives Safe & Compliant Deactivated 325 Facility Receives Safe & Compliant Deactivated 326 Facility Receives Safe & Compliant Deactivated 329 Facility
PNNL Waste Management	RL-ST01	Provides Excess 306W Facility Provides Excess 325 Building Provides Excess 326 Building Provides Excess 329 Building Provides Excess 331 Facility Provides Excess Misc. Rad Labs


#### **4.2.4.9.7 Requirements References**

- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-96-92, Hanford Strategic Plan"

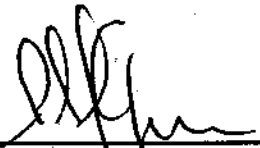



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#### **4.2.5 Landlord Project**

The mission of Landlord Project is to provide major maintenance/replacement of general infrastructure facilities and systems to facilitate the Hanford Site cleanup mission. Once an infrastructure facility or system is no longer needed the Landlord Project transitions the facility to final closure/removal through excess, salvage, or demolition. Landlord Project activities will be performed in an environmentally sound, safe, economical, prudent, and reliable manner. The Landlord Project consists of the following major facilities/systems: steam, water, liquid sanitary waste, electrical distribution, telecommunication systems, sanitary landfill, emergency services, general purpose offices, general purpose shops, general purpose warehouses, environmental support facilities, roads, railroad, and the site land.

The objectives for general infrastructure support are reflected in two specific areas, 1) Core Infrastructure Maintenance, and 2) Infrastructure Risk Mitigation.

##### **4.2.5.a Project Structure**

- Landlord (RL-TP13)

##### **4.2.5.b Hanford Strategic Plan Goals**

The Waste, Material, and Geographic Area Goals contained in the Hanford Strategic Plan (DOE/RL-96-92), represent planning assumptions around which the Hanford Environmental Management effort is structured. Each Mission Area and Project partially support each of these goals, per scope of work described in the Prime Contracts. As an aggregate, all Mission Areas and Projects will fulfill the requirements of the Hanford Strategic Plan. As such, the Goals identified in this section cover only the goals directly supported by that specific Mission Area. Further details are contained in the Project planning documents. As records-of-decision are issued, these Goals will be amended in future revisions of the Hanford Strategic Plan.

- This area will remain in Federal ownership consistent with safety analysis boundaries and waste management operations in the 200 Area. These areas will be available for other Federal programs or leased for non-Federal uses, consistent with appropriate recognition of cultural and ecosystem values.
- The 200 Areas and central plateau will be used for the management of nuclear materials and the collection and disposal of waste materials that remain onsite and for other related and compatible uses. Cleanup levels and disposal standards will be established that are consistent with these long-term uses.
- Pending Congressional action on the Wild and Scenic River designation, use will continue to be restricted; sensitive ecological, cultural, and native American resources will be protected.

- Remove and/or stabilize spent fuel, surplus facilities, and waste sites to protect groundwater and the Columbia River and to ensure protection of people, the environment, and natural/cultural resources. Pending Congressional action on the Wild and Scenic River designation, use will continue to be restricted; sensitive ecological, cultural, and native American resources will be protected.
- The 300 Area waste sites, materials and facilities will be remediated to allow industrial and economic diversification opportunities. The Federal government will retain ownership of land in and adjacent to the 300 and 400 Areas, but will lease land for private and public uses to support regional industrial and economic development. Excess land within the 1100 Area will be targeted for transition to non-Federal ownership.
- Groundwater remains restricted for a yet to be determined period pending decisions on final attainable cleanup levels. Remediation actions will protect the Columbia River and the near-shore environment, reduce contamination entering the groundwater, and control the migration of plumes that threaten groundwater quality beyond the boundaries of the Central Plateau.
- Safe, stable, secure onsite storage will be provided for all nuclear materials pending decisions on final disposition or until beneficial offsite uses are identified. Facilities without identified future uses will be transitioned to low-cost, stable deactivated conditions (requiring minimal surveillance and maintenance) pending eventual D&D and removal or closure.

#### **4.2.5.c Technical Logic**

Figure 4-6 Landlord Material/Flow Logic

**LANDLORD PROJECT EXCESS FACILITIES**  
**Logic Diagram**

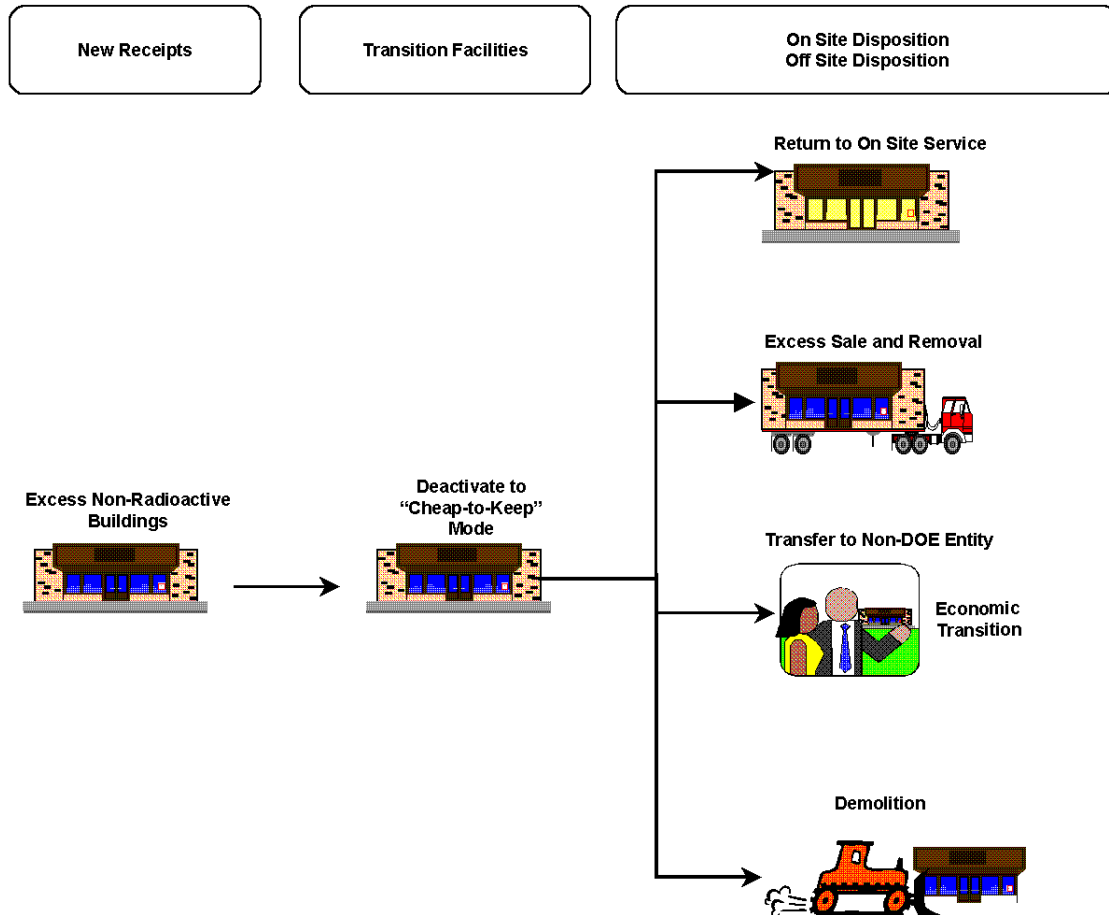
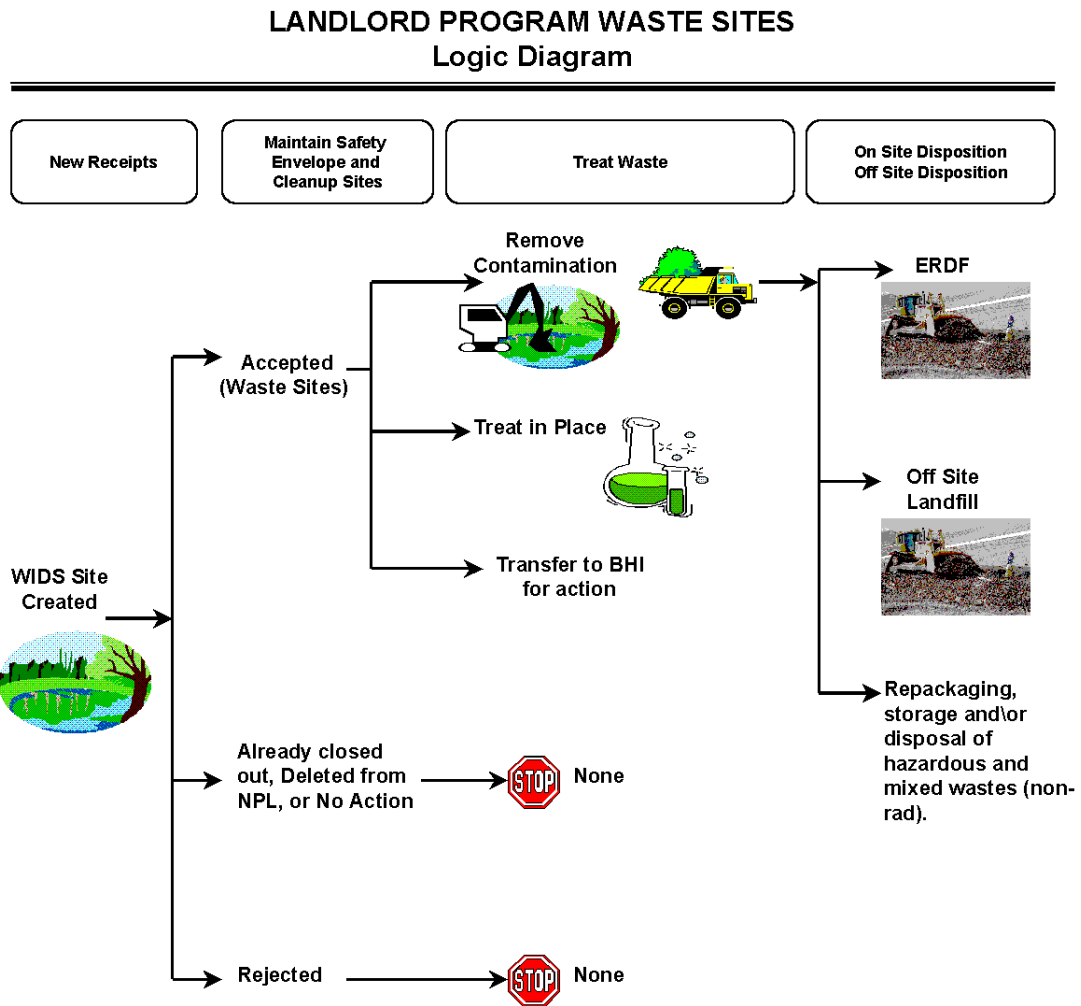


Figure 4-7 Landlord Material/Flow Logic



4.2.5.d Facility Life-Cycle Responsibility Assignments

Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
<b>100-N Reactor</b>	RL-ER10						RL-ER06
1331N	RL-ER10					RL-TP13	RL-TP13
1332N	RL-ER10					RL-TP13	RL-TP13
MO951	RL-ER10					RL-TP13	RL-TP13
MO952	RL-ER10					RL-TP13	RL-TP13
MO957	RL-ER10						RL-TP13
MO954	RL-ER10					RL-TP13	RL-TP13
<b>200 LEF</b>	RL-WM05				RL-WM05		RL-ER02 RL-ER06
242A	RL-WM05				RL-WM05	RL-TP10 RL-TP13	RL-ER06 RL-TP13
242AB	RL-WM05				RL-WM05	RL-TP10 RL-TP13	RL-ER06 RL-TP13
200 Area Treated Effluent Disposal Facility	RL-WM05				RL-WM05	RL-TP13	RL-TP13
216E-43A	RL-WM05				RL-WM05	RL-TP13	RL-TP13
216E-43B	RL-WM05				RL-WM05	RL-TP13	RL-TP13
225E	RL-WM05				RL-WM05	RL-TP13	RL-TP13
6653A	RL-WM05				RL-WM05	RL-TP13	RL-TP13
200E SALDS	RL-WM05				RL-WM05	RL-TP13	RL-ER06 RL-TP13
200W SALDS	RL-WM05				RL-WM05	RL-TP13	RL-ER06 RL-TP13
242A702	RL-WM05				RL-WM05	RL-TP13	RL-ER06 RL-TP13
242A81	RL-WM05				RL-WM05	RL-TP13	RL-ER06 RL-TP13
<b>PUREX</b>	RL-TP03					RL-ER05 RL-TP03	RL-ER06 RL-ER07
225EC	RL-TP03				RL-WM05	RL-TP13	RL-TP13
<b>PFP</b>	RL-TP05					RL-ER05 RL-TP05	RL-ER06 RL-ER07 RL-TP05
234-5Z-BA	RL-TP05 RL-TP13				RL-I111	RL-TP13	RL-ER06
MO014	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO428	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO429	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO432	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO834	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
MO839	RL-I13				RL-I131 RL-TP05	RL-TP13	RL-TP13
<b>300 LEF</b>	RL-WM05				RL-WM05	RL-ER03 RL-WM05	RL-ER03
300 Area Treated Effluent Disposal Facility	RL-WM05				RL-WM05	RL-TP13	RL-TP13
310	RL-WM05				RL-WM05	RL-TP13	RL-TP13
310S	RL-WM05				RL-WM05	RL-TP13	RL-TP13
3906	RL-WM05				RL-WM05	RL-TP13	RL-TP13
<b>FFTF</b>	RL-MS01				RL-MS01	RL-ER05 RL-MS01	RL-ER06 RL-ER07
4843	RL-TP13				RL-I123	RL-TP13	RL-TP13

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**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
<b>300 Area Fuel Supply System</b>	RL-TP04					RL-ER05 RL-TP04	RL-ER06 RL-ER07
MO052	RL-TP04 RL-TP13				RL-TP04	RL-TP13	RL-ER06
<b>Misc Engineering Laboratories</b>	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
332	RL-ST01				RL-ST01	RL-ST01 RL-TP13	
336	RL-ST01				RL-ST01	RL-TP13	RL-ER06 RL-ER07
338	RL-ST01				RL-ST01	RL-TP13	RL-ER06 RL-ER07
3745A						RL-TP13	
<b>Misc Radiological Facilities</b>	RL-ST01 RL-TP14				RL-ST01	RL-ER05 RL-TP14	RL-ER06 RL-ER07
306E	RL-OT01				Cogema	RL-TP14	RL-TP13
<b>3020 Facility</b>	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
<b>Steam System</b>	RL-I111				RL-I111	RL-TP13	RL-TP13
284E	RL-I111						RL-TP13
284EB	RL-I111				RL-I111	RL-TP13	RL-TP13
284W	RL-I111						RL-TP13
285W	RL-I111				RL-I111	RL-TP13	RL-TP13
284WB	RL-I111						RL-TP13
384	RL-I111						RL-TP13
<b>Water System</b>	RL-I112 RL-TP13				RL-I112 RL-TP13	RL-TP13	RL-TP13
183.5KW	RL-I112				RL-I112	RL-TP13	RL-TP13
183.6KW	RL-I112				RL-I112	RL-TP13	RL-TP13
183KE	RL-I112				RL-I112	RL-TP13	RL-TP13
183.1KW	RL-I112				RL-I112	RL-TP13	RL-TP13
181B	RL-I112				RL-I112	RL-TP13	RL-TP13
182B	RL-I112				RL-I112	RL-TP13	RL-TP13
181D	RL-I112				RL-I112	RL-TP13	RL-TP13
182D	RL-I112				RL-I112	RL-TP13	RL-TP13
183D	RL-I112				RL-I112	RL-TP13	RL-TP13
1901Y	RL-I112				RL-I112	RL-TP13	RL-TP13
1902D	RL-I112				RL-I112	RL-TP13	RL-TP13
183-2KW	RL-I112				RL-I112	RL-TP13	RL-TP13
183-3KW	RL-I112				RL-I112	RL-TP13	RL-TP13
183-4KW	RL-I112				RL-I112	RL-TP13	RL-TP13
282E	RL-I112				RL-I112	RL-TP13	RL-TP13
282EA	RL-I112				RL-I112	RL-TP13	RL-TP13
282EB	RL-I112				RL-I112	RL-TP13	RL-TP13
282ED	RL-I112				RL-I112	RL-TP13	RL-TP13
283E	RL-I112				RL-I112	RL-TP13	RL-TP13
282W	RL-I112				RL-I112	RL-TP13	RL-TP13
282WA	RL-I112				RL-I112	RL-TP13	RL-TP13
282WD	RL-I112				RL-I112	RL-TP13	RL-TP13
283W	RL-I112				RL-I112	RL-TP13	RL-TP13
283WB	RL-I112				RL-I112	RL-TP13	RL-TP13
283WD	RL-I112				RL-I112	RL-TP13	RL-TP13
283WF	RL-I112				RL-I112	RL-TP13	RL-TP13
286W	RL-I112				RL-I112	RL-TP13	RL-TP13
2901Y	RL-I112				RL-I112	RL-TP13	RL-TP13
315	RL-I112				RL-I112	RL-TP13	RL-TP13
382	RL-I112				RL-I112	RL-TP13	RL-TP13
382B	RL-I112				RL-I112	RL-TP13	RL-TP13
315C	RL-I112				RL-I112	RL-TP13	RL-TP13
315D	RL-I112				RL-I112	RL-TP13	RL-TP13
<b>Liquid Sanitary Waste System</b>	RL-I113 RL-TP13				RL-I113 RL-TP13	RL-TP13	RL-TP13
4708	RL-I113				RL-I113	RL-TP13	RL-TP13
<b>Electrical Distribution System</b>	RL-I114 RL-TP13				RL-I114 RL-TP13	RL-TP13	RL-TP13
151B	RL-I114				RL-I114		RL-TP13
151-KE	RL-I114						RL-TP13

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**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
151-KW	RL-I114				RL-I114	RL-TP13	RL-TP13
251W	RL-I114				RL-I114	RL-TP13	RL-TP13
252E	RL-I114				RL-I114	RL-TP13	RL-TP13
252S	RL-I114				RL-I114	RL-TP13	RL-TP13
252U	RL-I114				RL-I114	RL-TP13	RL-TP13
252W	RL-I114				RL-I114	RL-TP13	RL-TP13
621A	RL-I114				RL-I114	RL-TP13	RL-TP13
621B	RL-I114				RL-I114	RL-TP13	RL-TP13
351A	RL-I114				RL-I114	RL-TP13	RL-TP13
351B	RL-I114				RL-I114	RL-TP13	RL-TP13
352E	RL-I114				RL-I114	RL-TP13	RL-TP13
352F	RL-I114				RL-I114	RL-TP13	RL-TP13
3621E	RL-I114				RL-I114	RL-TP13	RL-TP13
3621C	RL-I114				RL-I114	RL-TP13	RL-TP13
3621D	RL-I114				RL-I114	RL-TP13	RL-TP13
652	RL-I114				RL-I114	RL-TP13	RL-TP13
<b>Telecommunications System</b>	RL-I148 RL-TP13				RL-I148 RL-TP13	RL-TP13	RL-TP13
630	RL-I148				RL-I148	RL-TP13	RL-TP13
1112NA	RL-I148				RL-I148	RL-TP13	RL-TP13
506B	RL-I148				RL-I148	RL-TP13	RL-TP13
506BA	RL-I148				RL-I148	RL-TP13	RL-TP13
2506E1	RL-I148				RL-I148	RL-TP13	RL-TP13
2506E2	RL-I148				RL-I148	RL-TP13	RL-TP13
2506W3	RL-I148				RL-I148	RL-TP13	RL-TP13
2506E3	RL-I148				RL-I148	RL-TP13	RL-TP13
2506W1	RL-I148				RL-I148	RL-TP13	RL-TP13
2506W2	RL-I148				RL-I148	RL-TP13	RL-TP13
MO290	RL-I148				RL-I148	RL-TP13	RL-TP13
676	RL-I148				RL-I148	RL-TP13	RL-TP13
623B	RL-I148				RL-I148	RL-TP13	RL-TP13
3506C	RL-I148				RL-I148	RL-TP13	RL-TP13
3507	RL-I148				RL-I148	RL-TP13	RL-TP13
3220	RL-I148				RL-I148	RL-TP13	RL-TP13
4790A	RL-I148				RL-I148	RL-TP13	RL-TP13
6221NA	RL-I148				RL-I148	RL-TP13	RL-TP13
6223A	RL-I148				RL-I148	RL-TP13	RL-TP13
6224A	RL-I148				RL-I148	RL-TP13	RL-TP13
623A	RL-I148				RL-I148	RL-TP13	RL-TP13
623	RL-I148				RL-I148	RL-TP13	RL-TP13
<b>Central Sanitary Landfill</b>						RL-TP13	RL-TP13
<b>Emergency Services</b>	RL-I151 RL-TP13				RL-I151 RL-TP13	RL-TP13	RL-TP13
609	RL-I151				RL-I151	RL-TP13	RL-TP13
613	RL-I151				RL-I151	RL-TP13	RL-TP13
609A	RL-I151				RL-I151	RL-TP13	RL-TP13
609B	RL-I151				RL-I151	RL-TP13	RL-TP13
609C	RL-I151				RL-I151	RL-TP13	RL-TP13
609E	RL-I151				RL-I151	RL-TP13	RL-TP13
609G	RL-I151				RL-I151	RL-TP13	RL-TP13
609D	RL-I151				RL-I151	RL-TP13	RL-TP13
3709A	RL-I151				RL-I151	RL-TP13	RL-TP13
3709B	RL-I151				RL-I151	RL-TP13	RL-TP13
4704S	RL-I151				RL-I151	RL-TP13	RL-TP13
<b>General Purpose Offices</b>	RL-I13 RL-TP13				RL-I13 RL-TP13	RL-TP13	RL-TP13
2200B	RL-I13				RL-I131	RL-TP13	RL-TP13
2201B	RL-I13				RL-I131	RL-TP13	RL-TP13
2245B	RL-I13				RL-I131	RL-TP13	RL-TP13
2259W	RL-I13				RL-I13	RL-TP13	
2701EC	RL-I13					RL-TP13	RL-TP13
2701M	RL-I13						RL-TP13
2704S	RL-I13				RL-I131	RL-TP13	RL-TP13
2704W	RL-I13						RL-TP13
2707E	RL-I13				RL-I131	RL-TP13	RL-TP13
2707W	RL-I13				RL-I131	RL-TP13	RL-TP13
2710E	RL-I13				RL-I131	RL-TP13	RL-TP13
2710W	RL-I13				RL-I131	RL-TP13	RL-TP13



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**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
2713E	RL-I13						RL-TP13
2719EA	RL-I13				RL-I131	RL-TP13	RL-TP13
2719WB	RL-I13				RL-I131	RL-TP13	RL-TP13
2721E	RL-I13				RL-I131	RL-TP13	RL-TP13
2721EA	RL-I13				RL-I131	RL-TP13	RL-TP13
2722E	RL-I13						RL-TP13
2723W	RL-I13				RL-I131	RL-TP13	RL-TP13
2727E	RL-I13				RL-I131	RL-TP13	RL-TP13
272EA	RL-I13				RL-I131	RL-TP13	RL-TP13
274AW	RL-I13				RL-I131	RL-TP13	RL-TP13
2750E	RL-I13				RL-I131	RL-TP13	RL-TP13
2751E	RL-I13				RL-I131	RL-TP13	RL-TP13
2752E	RL-I13				RL-I131	RL-TP13	RL-TP13
2753E	RL-I13				RL-I131	RL-TP13	RL-TP13
278AW	RL-I13				RL-I131	RL-TP13	RL-TP13
278WA	RL-I13				RL-I131	RL-TP13	RL-TP13
604A	RL-I13				RL-I131	RL-TP13	RL-TP13
622G	RL-I13					RL-TP13	RL-TP13
MO011	RL-I13				RL-I131	RL-TP13	RL-TP13
MO012	RL-I13						RL-TP13
MO015	RL-I13				RL-I131	RL-TP13	RL-TP13
MO016	RL-I13				RL-I131	RL-TP13	RL-TP13
MO017	RL-I13				RL-I131	RL-TP13	RL-TP13
MO019	RL-I13				RL-I131	RL-TP13	RL-TP13
MO021	RL-I13						RL-TP13
MO027	RL-I13				RL-I131	RL-TP13	RL-TP13
MO028	RL-I13				RL-I131	RL-TP13	RL-TP13
MO029	RL-I13				RL-I131	RL-TP13	RL-TP13
MO031	RL-I13				RL-I131	RL-TP13	RL-TP13
MO032	RL-I13				RL-I131	RL-TP13	RL-TP13
MO037	RL-I13				RL-I131	RL-TP13	RL-TP13
MO039	RL-I13				RL-I131	RL-TP13	RL-TP13
MO040	RL-I13						RL-TP13
MO041	RL-I13				RL-I131	RL-TP13	RL-TP13
MO042	RL-I13						RL-TP13
MO043	RL-I13						RL-TP13
MO047	RL-I13						RL-TP13
MO108	RL-I13				RL-I13	RL-TP13	
MO112	RL-I13				RL-I131	RL-TP13	RL-TP13
MO204	RL-I13						RL-TP13
MO206	RL-I13				RL-I131	RL-TP13	RL-TP13
MO211	RL-I13				RL-I131	RL-TP13	RL-TP13
MO215	RL-I13				RL-I131	RL-TP13	RL-TP13
MO227	RL-I13						RL-TP13
MO232	RL-I13				RL-I131	RL-TP13	RL-TP13
MO234	RL-I13				RL-I131	RL-TP13	RL-TP13
MO235	RL-I13				RL-I131	RL-TP13	RL-TP13
MO240	RL-I13				RL-I131	RL-TP13	RL-TP13
MO244	RL-I13				RL-I131	RL-TP13	RL-TP13
MO245	RL-I13				RL-I131	RL-TP13	RL-TP13
MO246	RL-I13				RL-I131	RL-TP13	RL-TP13
MO247	RL-I13				RL-I131	RL-TP13	RL-TP13
MO248	RL-I13				RL-I131	RL-TP13	RL-TP13
MO249	RL-I13				RL-I131	RL-TP13	RL-TP13
MO250	RL-I13				RL-I131	RL-TP13	RL-TP13
MO251	RL-I13				RL-I131	RL-TP13	RL-TP13
MO252	RL-I13				RL-I131	RL-TP13	RL-TP13
MO253	RL-I13				RL-I131	RL-TP13	RL-TP13
MO254	RL-I13				RL-I131	RL-TP13	RL-TP13
MO255	RL-I13				RL-I131	RL-TP13	RL-TP13
MO256	RL-I13				RL-I131	RL-TP13	RL-TP13
MO257	RL-I13				RL-I131	RL-TP13	RL-TP13
MO266	RL-I13				RL-I131	RL-TP13	RL-TP13
MO267	RL-I13				RL-I131	RL-TP13	RL-TP13
MO268	RL-I13				RL-I131	RL-TP13	RL-TP13
MO272	RL-I13				RL-I131	RL-TP13	RL-TP13
MO273	RL-I13				RL-I131	RL-TP13	RL-TP13
MO276	RL-I13				RL-I131	RL-TP13	RL-TP13

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**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
MO277	RL-I13				RL-I131	RL-TP13	RL-TP13
MO280	RL-I13				RL-I131	RL-TP13	RL-TP13
MO281	RL-I13				RL-I131	RL-TP13	RL-TP13
MO282	RL-I13				RL-I131	RL-TP13	RL-TP13
MO283	RL-I13				RL-I131	RL-TP13	RL-TP13
MO284	RL-I13				RL-I131	RL-TP13	RL-TP13
MO285	RL-I13				RL-I131	RL-TP13	RL-TP13
MO286	RL-I13				RL-I131	RL-TP13	RL-TP13
MO287	RL-I13				RL-I131	RL-TP13	RL-TP13
MO291	RL-I13				RL-I131	RL-TP13	RL-TP13
MO292	RL-I13				RL-I131	RL-TP13	RL-TP13
MO294	RL-I13				RL-I131	RL-TP13	RL-TP13
MO314	RL-I13				RL-I131	RL-TP13	RL-TP13
MO346	RL-I13					RL-TP13	RL-TP13
MO351	RL-I13				RL-I131	RL-TP13	RL-TP13
MO354	RL-I13				RL-I131	RL-TP13	RL-TP13
MO369	RL-I13						RL-TP13
MO377	RL-I13				RL-I131	RL-TP13	RL-TP13
MO384	RL-I13				RL-I131	RL-TP13	RL-TP13
MO386	RL-I13				RL-I131	RL-TP13	RL-TP13
MO388	RL-I13				RL-I131	RL-TP13	RL-TP13
MO393	RL-I13						RL-TP13
MO398	RL-I13				RL-I131	RL-TP13	RL-TP13
MO400	RL-I13				RL-I131	RL-TP13	RL-TP13
MO406	RL-I13				RL-I131	RL-TP13	RL-TP13
MO407	RL-I13				RL-I131	RL-TP13	RL-TP13
MO408	RL-I13				RL-I131	RL-TP13	RL-TP13
MO410	RL-I13				RL-I131	RL-TP13	RL-TP13
MO412	RL-I13				RL-I131	RL-TP13	RL-TP13
MO413	RL-I13				RL-I131	RL-TP13	RL-TP13
MO414	RL-I13				RL-I131	RL-TP13	RL-TP13
MO434	RL-I13				RL-I131	RL-TP13	RL-TP13
MO441	RL-I13				RL-I13	RL-TP13	
MO454	RL-I13				RL-I131	RL-TP13	RL-TP13
MO465	RL-I13				RL-I131	RL-TP13	RL-TP13
MO535	RL-I13						RL-TP13
MO556	RL-I13				RL-I131	RL-TP13	RL-TP13
MO560	RL-I13						RL-TP13
MO569	RL-I13				RL-I131	RL-TP13	RL-TP13
MO570	RL-I13				RL-I131	RL-TP13	RL-TP13
MO571	RL-I13				RL-I131	RL-TP13	RL-TP13
MO573	RL-I13				RL-I131	RL-TP13	RL-TP13
MO574	RL-I13				RL-I131	RL-TP13	RL-TP13
MO674	RL-I13					RL-TP13	RL-TP13
MO717	RL-I13				RL-I131	RL-TP13	RL-TP13
MO718	RL-I13				RL-I131	RL-TP13	RL-TP13
MO722	RL-I13				RL-I131	RL-TP13	RL-TP13
MO816	RL-I13				RL-I131	RL-TP13	RL-TP13
MO831	RL-I13				RL-I131	RL-TP13	RL-TP13
MO832	RL-I13				RL-I131	RL-TP13	RL-TP13
MO833	RL-I13				RL-I131	RL-TP13	RL-TP13
MO835	RL-I13						RL-TP13
MO837	RL-I13				RL-I131	RL-TP13	RL-TP13
MO840	RL-I13				RL-I131	RL-TP13	RL-TP13
MO841	RL-I13				RL-I131	RL-TP13	RL-TP13
MO844	RL-I13				RL-I131	RL-TP13	RL-TP13
MO845	RL-I13				RL-I13	RL-TP13	
MO847	RL-I13				RL-I131	RL-TP13	RL-TP13
MO848	RL-I13				RL-I131	RL-TP13	RL-TP13
MO849	RL-I13				RL-I131	RL-TP13	RL-TP13
MO852	RL-I13				RL-I13	RL-TP13	
MO853	RL-I13				RL-I131		RL-TP13
MO858	RL-I13				RL-I131	RL-TP13	RL-TP13
MO862	RL-I13				RL-I131	RL-TP13	RL-TP13
MO863	RL-I13					RL-TP13	RL-TP13
MO890	RL-I13				RL-I131	RL-TP13	RL-TP13
MO904	RL-I13				RL-I131	RL-TP13	RL-TP13
MO906	RL-I13				RL-I131	RL-TP13	RL-TP13

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**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
MO909	RL-I13					RL-TP13	RL-TP13
MO919	RL-I13				RL-I131	RL-TP13	RL-TP13
MO924	RL-I13				RL-I131	RL-TP13	RL-TP13
MO927	RL-I13						RL-TP13
MO931	RL-I13				RL-I13	RL-TP13	
MO934	RL-I13						RL-TP13
MO936	RL-I13					RL-TP13	RL-TP13
MO939	RL-I13				RL-I131	RL-TP13	RL-TP13
MO943	RL-I13				RL-I131	RL-TP13	RL-TP13
MO946	RL-I13				RL-I13	RL-TP13	
MO947	RL-I13					RL-TP13	RL-TP13
MO948	RL-I13				RL-I13	RL-TP13	
MO953	RL-I13				RL-I131	RL-TP13	RL-TP13
MO955	RL-I13						RL-TP13
MO956	RL-I13				RL-I131	RL-TP13	RL-TP13
MO958	RL-I13				RL-I131	RL-TP13	RL-TP13
MO959	RL-I13				RL-I131	RL-TP13	RL-TP13
MO961	RL-I13				RL-I131	RL-TP13	RL-TP13
MO962	RL-I13				RL-I131	RL-TP13	RL-TP13
MO964	RL-I13				RL-I131	RL-TP13	RL-TP13
MO966	RL-I13				RL-I131	RL-TP13	RL-TP13
MO967	RL-I13				RL-I131	RL-TP13	RL-TP13
MO968	RL-I13				RL-I131	RL-TP13	RL-TP13
MO972	RL-I13				RL-I13	RL-TP13	
MO975	RL-I13				RL-I131	RL-TP13	RL-TP13
MO976	RL-I13				RL-I131	RL-TP13	RL-TP13
MO977	RL-I13				RL-I131	RL-TP13	RL-TP13
MO990	RL-I13						RL-TP13
MO994	RL-I13						RL-TP13
MO996	RL-I13				RL-I131	RL-TP13	RL-TP13
MO997	RL-I13					RL-TP13	RL-TP13
328	RL-I13				RL-I131	RL-TP13	RL-TP13
3705	RL-I13				RL-I131	RL-TP13	RL-TP13
3719	RL-I13				RL-I131	RL-TP13	RL-TP13
3763	RL-I13				RL-I131	RL-TP13	RL-TP13
3766	RL-I13				RL-I131	RL-TP13	RL-TP13
3768	RL-I13				RL-I131	RL-TP13	RL-TP13
3769	RL-I13					RL-TP13	RL-TP13
3770	RL-I13				RL-I131	RL-TP13	RL-TP13
3790	RL-I13				RL-I131	RL-TP13	RL-TP13
339A	RL-I13				RL-I131	RL-TP13	RL-TP13
3701C	RL-I13				RL-I131	RL-TP13	RL-TP13
3701	RL-I13				RL-I131	RL-TP13	RL-TP13
3701D	RL-I13					RL-TP13	RL-TP13
3701U	RL-I13						RL-TP13
3703A	RL-I13				RL-I131	RL-TP13	RL-TP13
3707H	RL-I13				RL-I131	RL-TP13	RL-TP13
3719A	RL-I13						RL-TP13
3746D	RL-I13				RL-I131	RL-TP13	RL-TP13
MO026	RL-I13				RL-I131	RL-TP13	RL-TP13
MO264	RL-I13				RL-I131	RL-TP13	RL-TP13
MO337	RL-I13				RL-I131	RL-TP13	RL-TP13
MO557	RL-I13				RL-I131	RL-TP13	RL-TP13
MO558	RL-I13				RL-I131	RL-TP13	RL-TP13
MO830	RL-I13				RL-I131	RL-TP13	RL-TP13
MO842	RL-I13				RL-I131	RL-TP13	RL-TP13
4702	RL-I13				RL-I131	RL-TP13	RL-TP13
4706	RL-I13				RL-I131	RL-TP13	RL-TP13
4707	RL-I13				RL-I131	RL-TP13	RL-TP13
4719	RL-I13					RL-TP13	RL-TP13
4790	RL-I13				RL-I131	RL-TP13	RL-TP13
4701B	RL-I13					RL-TP13	RL-TP13
MO353	RL-I13						RL-TP13
MO378	RL-I13						RL-TP13
MO379	RL-I13						RL-TP13
MO908	RL-I13						RL-TP13
662	RL-I13				RL-I131	RL-TP13	RL-TP13
6701	RL-I13				RL-I131	RL-TP13	RL-TP13

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**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
604F	RL-I13						RL-TP13
661A	RL-I13				RL-I131	RL-TP13	RL-TP13
662A	RL-I13				RL-I131	RL-TP13	RL-TP13
6701A	RL-I13				RL-I131	RL-TP13	RL-TP13
6701B	RL-I13				RL-I131	RL-TP13	RL-TP13
MO001	RL-I13				RL-I131	RL-TP13	RL-TP13
MO002	RL-I13				RL-I131	RL-TP13	RL-TP13
MO222	RL-I13				RL-I131	RL-TP13	RL-TP13
MO302	RL-I13				RL-I131	RL-TP13	RL-TP13
MO368	RL-I13				RL-I131	RL-TP13	RL-TP13
MO917	RL-I13				RL-I131	RL-TP13	RL-TP13
712B	RL-I13				RL-I131	RL-TP13	RL-TP13
747B	RL-I13				RL-I131	RL-TP13	RL-TP13
747	RL-I13					RL-TP13	RL-TP13
703	RL-I13				RL-I13	RL-TP13	RL-TP13
712	RL-I13				RL-I131	RL-TP13	RL-TP13
1170	RL-I13				RL-I13	RL-TP13	
1167A	RL-I13				RL-I13	RL-TP13	
MO370	RL-I13				RL-I131	RL-TP13	RL-TP13
MO404	RL-I13				RL-I13	RL-TP13	
MO916	RL-I13				RL-I13	RL-TP13	
MO938	RL-I13				RL-I13	RL-TP13	
MO940	RL-I13				RL-I13	RL-TP13	
MO396	RL-I13				RL-I131	RL-TP13	RL-TP13
MO851	RL-I13				RL-I131	RL-TP13	RL-TP13
3707D	RL-I13					RL-TP13	RL-TP13
MO103	RL-I13					RL-TP13	RL-TP13
MO105	RL-I13					RL-TP13	RL-TP13
MO543	RL-I13				RL-I131	RL-TP13	RL-TP13
748	RL-I13				RL-I13	RL-TP13	RL-TP13
3226	RL-I13				RL-I131	RL-TP13	RL-TP13
3227	RL-I13				RL-I131	RL-TP13	RL-TP13
3228	RL-I13				RL-I131	RL-TP13	RL-TP13
<b>General Purpose Shops</b>	RL-I14				RL-I14	RL-TP13	RL-TP13
	RL-TP13				RL-TP13		
6290	RL-I14				RL-I14	RL-TP13	RL-TP13
221A	RL-I14				RL-I14	RL-TP13	RL-TP13
2242B	RL-I14				RL-I14	RL-TP13	RL-TP13
2244B	RL-I14				RL-I14	RL-TP13	RL-TP13
2300W	RL-I14				RL-I14	RL-TP13	RL-TP13
2301W	RL-I14				RL-I14	RL-TP13	RL-TP13
2311W	RL-I14				RL-I14	RL-TP13	RL-TP13
2317W	RL-I14				RL-I14	RL-TP13	RL-TP13
2247B	RL-I14				RL-I14	RL-TP13	RL-TP13
2318W	RL-I14				RL-I14	RL-TP13	RL-TP13
2309W	RL-I14				RL-I14	RL-TP13	RL-TP13
2308W	RL-I14				RL-I14	RL-TP13	RL-TP13
2304W	RL-I14				RL-I14	RL-TP13	RL-TP13
242AC	RL-I14				RL-I14	RL-TP13	RL-TP13
2711EA	RL-I14				RL-I14	RL-TP13	RL-TP13
2711EB	RL-I14				RL-I14	RL-TP13	RL-TP13
2715EC	RL-I14					RL-TP13	RL-TP13
272E	RL-I14						RL-TP13
274E	RL-I14				RL-I14	RL-TP13	RL-TP13
275E	RL-I14				RL-I14	RL-TP13	RL-TP13
277A	RL-I14				RL-I14	RL-TP13	RL-TP13
MO048	RL-I14				RL-I14	RL-TP13	RL-TP13
272W	RL-I14				RL-I14	RL-TP13	RL-TP13
275W	RL-I14				RL-I14	RL-TP13	RL-TP13
277W	RL-I14				RL-I14	RL-TP13	RL-TP13
2728W	RL-I14				RL-I14	RL-TP13	RL-TP13
2722W	RL-I14						RL-TP13
2238E	RL-I14					RL-TP13	RL-TP13
2239E	RL-I14					RL-TP13	RL-TP13
2240E	RL-I14					RL-TP13	RL-TP13
2262W	RL-I14					RL-TP13	RL-TP13
2237E	RL-I149				RL-I149	RL-TP13	RL-TP13
3709	RL-I14				RL-I14	RL-TP13	RL-TP13

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**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
3713	RL-I14				RL-I14	RL-TP13	RL-TP13
3721	RL-I14				RL-I14	RL-TP13	RL-TP13
3722	RL-I14					RL-TP13	RL-TP13
305A	RL-I14				RL-I14	RL-TP13	RL-TP13
305P	RL-I14				RL-I14	RL-TP13	RL-TP13
305	RL-I14				RL-I14	RL-TP13	RL-TP13
328A	RL-I14				RL-I14	RL-TP13	RL-TP13
327E	RL-I14				RL-I14	RL-TP13	RL-TP13
3506A	RL-I14				RL-I14	RL-TP13	RL-TP13
3506B	RL-I14				RL-I14	RL-TP13	RL-TP13
3718N	RL-I14				RL-I14	RL-TP13	RL-TP13
4760	RL-I14				RL-I14	RL-TP13	RL-TP13
4704N	RL-I14				RL-I14	RL-TP13	RL-TP13
4722B	RL-I14				RL-I14	RL-TP13	RL-TP13
4722C	RL-I14				RL-I14	RL-TP13	RL-TP13
4734B	RL-I14				RL-I14	RL-TP13	RL-TP13
1171	RL-I14				RL-I14	RL-TP13	
1171A	RL-I14				RL-I14	RL-TP13	
1171B	RL-I14				RL-I14	RL-TP13	
3221	RL-I14				RL-I14	RL-TP13	RL-TP13
3231	RL-I14				RL-I14	RL-TP13	RL-TP13
<b>General Purpose Warehouses</b>	RL-I149				RL-I149	RL-TP13	RL-TP13
	RL-TP13				RL-TP13		
2101HV	RL-I149				RL-I149	RL-TP13	RL-TP13
213K	RL-I149				RL-I149	RL-TP13	RL-TP13
604G	RL-I149						RL-TP13
604H	RL-I149				RL-I149	RL-TP13	RL-TP13
MO315	RL-I149				RL-I149	RL-TP13	RL-TP13
MO376	RL-I149				RL-I149	RL-TP13	RL-TP13
MO944	RL-I149				RL-I149	RL-TP13	RL-TP13
2101M	RL-I149				RL-I149	RL-TP13	RL-TP13
2241B	RL-I149				RL-I149	RL-TP13	RL-TP13
2249B	RL-I149				RL-I149	RL-TP13	RL-TP13
2314W	RL-I149				RL-I149	RL-TP13	RL-TP13
2310W	RL-I149				RL-I149	RL-TP13	RL-TP13
2711E	RL-I149				RL-I149	RL-TP13	RL-TP13
2312W	RL-I149				RL-I149	RL-TP13	RL-TP13
2307W	RL-I149				RL-I149	RL-TP13	RL-TP13
2313W	RL-I149				RL-I149	RL-TP13	RL-TP13
2306W	RL-I149				RL-I149	RL-TP13	RL-TP13
2315W	RL-I149				RL-I149	RL-TP13	RL-TP13
2316W	RL-I149				RL-I149	RL-TP13	RL-TP13
2715E	RL-I149						RL-TP13
2715ED	RL-I149				RL-I149	RL-TP13	RL-TP13
2715WA	RL-I149				RL-I149	RL-TP13	RL-TP13
2715M	RL-I149						RL-TP13
2716E	RL-I149				RL-I149	RL-TP13	RL-TP13
2719E	RL-I149						RL-TP13
272BC	RL-I149				RL-I149	RL-TP13	RL-TP13
2734EA	RL-I149				RL-I149		RL-TP13
273E	RL-I149				RL-I149	RL-TP13	RL-TP13
275EA	RL-I149						RL-TP13
MO965	RL-I149				RL-I149	RL-TP13	RL-TP13
MO974	RL-I149				RL-I149	RL-TP13	RL-TP13
2724WB	RL-I149				RL-I149	RL-TP13	RL-TP13
283WE	RL-I149				RL-I149	RL-TP13	RL-TP13
273W	RL-I149				RL-I149	RL-TP13	RL-TP13
MO716	RL-I149				RL-I149	RL-TP13	RL-TP13
MO973	RL-I149				RL-I149	RL-TP13	RL-TP13
X8	RL-I149				RL-I149	RL-TP13	RL-TP13
212N	RL-I149				RL-I149		RL-TP13
212R	RL-I149				RL-I149		RL-TP13
607	RL-I149						RL-TP13
2251E	RL-I149				RL-I149	RL-TP13	RL-TP13
2252E	RL-I149				RL-I149	RL-TP13	RL-TP13
2253E	RL-I149				RL-I149	RL-TP13	RL-TP13
2254E	RL-I149				RL-I149	RL-TP13	RL-TP13
2255E	RL-I149				RL-I149	RL-TP13	RL-TP13

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**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
2256E	RL-I149				RL-I149	RL-TP13	RL-TP13
2257E	RL-I149				RL-I149	RL-TP13	RL-TP13
2233E	RL-I149				RL-I149	RL-TP13	RL-TP13
2234E	RL-I149				RL-I149	RL-TP13	RL-TP13
2231E	RL-I149				RL-I149	RL-TP13	RL-TP13
2232E	RL-I149				RL-I149	RL-TP13	RL-TP13
2263W	RL-I149				RL-I149	RL-TP13	RL-TP13
2264W	RL-I149				RL-I149	RL-TP13	RL-TP13
2265W	RL-I149				RL-I149	RL-TP13	RL-TP13
2230E	RL-I149				RL-I149	RL-TP13	RL-TP13
2235E	RL-I149				RL-I149	RL-TP13	RL-TP13
2236E	RL-I149				RL-I149	RL-TP13	RL-TP13
2258E	RL-I149				RL-I149	RL-TP13	RL-TP13
MO502					RL-I14	RL-TP13	RL-TP13
MO503					RL-I14	RL-TP13	RL-TP13
MO504					RL-I14	RL-TP13	RL-TP13
3704	RL-I149				RL-I149	RL-TP13	RL-TP13
3711	RL-I149				RL-I149	RL-TP13	RL-TP13
3715	RL-I149				RL-I149	RL-TP13	RL-TP13
3717	RL-I149				RL-I149	RL-TP13	RL-TP13
3727	RL-I149				RL-I149	RL-TP13	RL-TP13
3718C	RL-I149				RL-I149	RL-TP13	RL-TP13
4734D	RL-I149					RL-TP13	RL-TP13
MO536	RL-I149				RL-I149	RL-TP13	RL-TP13
1161	RL-I149				RL-I149	RL-TP13	
1162	RL-I149				RL-I149	RL-TP13	
1164	RL-I149				RL-I149	RL-TP13	
1167	RL-I149				RL-I149	RL-TP13	
1168	RL-I149				RL-I149	RL-TP13	
1169	RL-I149				RL-I149	RL-TP13	
1173	RL-I149				RL-I149	RL-TP13	
1175	RL-I149				RL-I149	RL-TP13	
1176	RL-I149				RL-I149	RL-TP13	
1177	RL-I149				RL-I149	RL-TP13	
1179	RL-I149				RL-I149	RL-TP13	
11201	RL-I149				RL-I149	RL-TP13	RL-TP13
1171C	RL-I149				RL-I149	RL-TP13	
1163	RL-I149				RL-I149	RL-TP13	
X4	RL-I149				RL-I149	RL-TP13	
1174	RL-I149				RL-I149	RL-TP13	
1172A	RL-I149				RL-I149	RL-TP13	
X1	RL-I149				RL-I149	RL-TP13	
3222	RL-I149				RL-I149	RL-TP13	RL-TP13
3223	RL-I149				RL-I149	RL-TP13	RL-TP13
3224	RL-I149				RL-I149	RL-TP13	RL-TP13
3225	RL-I149				RL-I149	RL-TP13	RL-TP13
3229	RL-I149				RL-I149	RL-TP13	RL-TP13
3232	RL-I149				RL-I149	RL-TP13	RL-TP13
3234	RL-I149				RL-I149	RL-TP13	RL-TP13
3235	RL-I149				RL-I149	RL-TP13	RL-TP13
3707E	RL-I149				RL-I149	RL-TP13	RL-TP13
<b>Environmental Support Facilities</b>	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
RoR Environmental Support Facility	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
100EMS	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
1614-D-3	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
CP Environmental Support Facility	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
213J	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
614	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
614BYRL	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13

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**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
622A	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
622B	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
622C	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
622D							RL-TP13
622F							RL-TP13
622R					RL-ST01 RL-TP13	RL-TP13	RL-TP13
646					USF&W	RL-TP13	RL-TP13
S600 Environmental Support Facility	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
6652C	RL-ST01					RL-ST01	RL-TP13
6652CSHED	RL-ST01					RL-ST01	RL-TP13
6652D	RL-ST01					RL-ST01	RL-TP13
6652DOME1	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
6652DOME2	RL-ST01					RL-ST01	RL-TP13
6652E	RL-ST01				RL-ST01 RL-TP13	RL-ST01	RL-TP13
6652G	RL-ST01					RL-ST01	RL-TP13
6652I	RL-ST01					RL-ST01	RL-TP13
6652J	RL-ST01					RL-ST01	RL-TP13
6652K					USF&W	RL-TP13	RL-TP13
6652L	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
6652M	RL-ST01					RL-ST01	RL-TP13
6652T (6652LP)						RL-ST01	RL-TP13
6652O					USF&W	RL-TP13	RL-TP13
6652PH					USF&W	RL-TP13	RL-TP13
6652UP	RL-ST01					RL-ST01	RL-TP13
300EMS	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
400EMS	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
3614A	RL-ST01					RL-ST01 RL-TP13	RL-TP13
747A	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
747A Tr1	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
3717B					RL-I145	RL-TP13	RL-TP13
303J	RL-ST01				RL-ST01 RL-TP13	RL-ST01	RL-TP13
3718A	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
3718B	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
3718P	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
3718S	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
337	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
3746						RL-TP13	RL-TP13
3760	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
MO226	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
MO010						RL-TP13	RL-TP13

**Table 4-56 Landlord Project Facility Life-Cycle Responsibility Assignments (Continued)**

Asset	Life Cycle Phase						
	Program Planning	Pre-Conceptual	Conceptual	Execute	O&M	Close Out	
						Post Ops	D&D
350	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
350B	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
350C	RL-ST01				RL-ST01 RL-TP13	RL-TP13	RL-TP13
<b>Rail System</b>						RL-TP13	RL-TP13
<b>Land</b>	RL-TP13				RL-TP13	RL-TP13	RL-TP13
<b>Road System</b>	RL-I124 RL-TP13				RL-I124 RL-TP13	RL-TP13	RL-TP13

\* RL PBS Identifier Index:

Cogema - Cogema  
 RL-ER02 - 200 Area Source Remedial Action  
 RL-ER03 - 300 Area Source Remedial Action  
 RL-ER05 - Surveillance & Maintenance  
 RL-ER06 - Decontamination & Decommissioning  
 RL-ER07 - Long Term Surveillance & Maintenance  
 RL-ER10 - ER Program Management and Support  
 RL-I111 - Steam Utilities  
 RL-I112 - Water Utilities  
 RL-I113 - Liquid Sanitary Waste Utilities  
 RL-I114 - Electrical Utilities  
 RL-I123 - Transportation Services  
 RL-I124 - Road and Grounds Maintenance  
 RL-I13 - General Purpose Facilities  
 RL-I131 - Government Owned Offices  
 RL-I14 - Infrastructure Services  
 RL-I145 - Calibration Labs  
 RL-I148 - Information Resource Management  
 RL-I149 - Asset Management  
 RL-I151 - Fire Protection Program  
 RL-MS01 - FFTF Project  
 RL-OT01 - Mission Support - Other Multi-Year Program  
 RL-ST01 - PNNL Waste Management  
 RL-TP03 - PUREX  
 RL-TP04 - 300 Area/SNM  
 RL-TP05 - PFP  
 RL-TP10 - Accelerated Deactivation  
 RL-TP13 - Landlord  
 RL-TP14 - Hanford Surplus Facility Prog 300A Revitalization  
 RL-WM05 - Liquid Effluents  
 USF&W - U.S. Fish and Wildlife

**TABLE 4-57 Landlord Project Facility Life-Cycle Responsibility Assignments for Waste Sites**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
<b>RoR Soil Site Operable Units</b>	Active		RL-ER01 RL-ER05	RL-ER01 RL-ER07 RL-ER09
100-B-2, 181-B Backwash Trench, Backwash Trench, Undocumented Liquid Waste Site	Active	RL-TP13	RL-ER01	RL-ER01
100-B-3, Hot Thimble Burial Ground, Undocumented Solid Waste Site	Active	RL-TP13	RL-ER01	RL-ER01
1607-B4, 1607-B4 Septic Tank System, 124-B-6, 1607-B4 Sanitary Sewer System, 1607-B4 Septic Tank	Active	RL-TP13	RL-ER01	RL-ER01
1607-B5, 1607-B5 Septic Tank System, 1607-B4, 1607-B4 Septic Tank System, 124-B-4, 1607-B4 Sanitary Sewer System	Active	RL-TP13	RL-ER01	RL-ER01



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**TABLE 4-57 Landlord Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
1607-B6, 1607-B6 Septic Tank System, 1607-B5, 1607-B5 Septic Tank System, 124-B-5, 1607-B5 Sanitary Sewer System	Active	RL-TP13	RL-ER01	RL-ER01
600-230, RCRA General Inspection 200WFY97 Item #4 Historic Disposal Site	Active	RL-TP13	RL-ER01	RL-ER01
600-231, RCRA General Inspection 200WFY97 Item #5 Historic Disposal Site	Rejected(Proposed)	RL-TP13		
600-253, Gravel Pit #24	Rejected(Proposed)	RL-TP13		
600-56, Pre-Hanford Farm Site, Undocumented Solid Waste Site	Rejected	RL-TP13		
600-67, Bruggemann's Fruit Storage Warehouse	Active	RL-TP13	RL-ER01	RL-ER01
100-C-4, Export Water Line Valve Pit	Rejected	RL-TP13		
600-232, 100B Electrical Laydown Area	Active	RL-TP13	RL-ER01	RL-ER01
600-233, Vertical Pipe Near 100B Electrical Laydown Area	Rejected(Proposed)	RL-TP13		
600-252, Old Tank from RCRA General Inspection #LORIVFY97 Item #8	Rejected(Proposed)	RL-TP13		
1607-D5, 1607-D5 Septic Tank and Associated Drain Field, 124-D-5, 1607-D5 Sanitary Sewer System, 1607-D5 Septic Tank	Active	RL-TP13	RL-ER01	RL-ER01
100-D-27, 151-D Substation UPR, A-2 Substation Transformer #A401C Leak	Active	RL-TP13	RL-ER01	RL-ER01
100-D-36, Undocumented Concrete Pad, Monitoring Station 1614-D-1, 100-N-20	Rejected	RL-TP13		
100-D-37, Undocumented Concrete Pad, 1614-D-3 Monitoring Station	Rejected	RL-TP13		
100-D-55, Gravel Pit #21	Rejected(Proposed)	RL-TP13		
1607-D3, 1607-D3 Septic Tank and Associated Drain Field, 1607-D3 Sanitary Sewer System, 1607-D3 Septic Tank	Active	RL-TP13	RL-ER01	RL-ER01
100-F-32, 1717-F Underground Fuel Oil Tanks	Rejected	RL-TP13		
100-F-28, Septic Tank and Drainfield	Active	RL-TP13	RL-ER01	RL-ER01
100-H-24, 151-H Electrical Facilities, 151-H Substation	Active	RL-TP13	RL-ER01	RL-ER01
600-151, Dumping Areas 50 yds and 200 yds Downstream of River Mile 14, Military installation NW of 100H Area	Active	RL-TP13	RL-ER01	RL-ER01
600-152, Military Septic Tanks	Active	RL-TP13	RL-ER01	RL-ER01
600-101, RRCWP, Riverland Railroad Car Wash Pit	Deleted from NPL	RL-TP13	RL-ER01	
600-102, 600 AMBS, 600 Area Army Munitions Burial Site	Deleted from NPL	RL-TP13	RL-ER01	
600-140, Gunny Sacks south of H-70 Antiaircraft Site	Rejected	RL-TP13		
600-141, Barrels South of H-70 Antiaircraft Site	Rejected	RL-TP13		
600-142, Car Body at McGee Ranch Fish Farm	Rejected	RL-TP13	RL-ER01	RL-ER01
600-143, Car body at Ford Well	Rejected	RL-TP13		
600-144, Car Body near top of Umptanum Ridge	Rejected	RL-TP13		
600-234, RCRA General Inspection 200WFY97 Item #11 Historic Disposal Site	Rejected(Proposed)	RL-TP13		
600-10, MIL - H-12C, "Battery B" Nike Missile Control Center	Deleted from NPL	RL-TP13	RL-ER01	
600-104, USBR, USBR 2,4-D Burial Site, USBR-2.4-D	Deleted from NPL	RL-TP13	RL-ER01	
600-11, MIL - H-81R	Deleted from NPL	RL-TP13	RL-ER01	
600-12, MIL - H-83C, Battery "C" Control Center	Deleted from NPL	RL-TP13	RL-ER01	
600-13, MIL - H-83L, Battery "C" Launch Site	Deleted from NPL	RL-TP13	RL-ER01	
600-14, MIL - PSN 01	Deleted from NPL	RL-TP13	RL-ER01	
600-15, MIL - PSN 04	Deleted from NPL	RL-TP13	RL-ER01	
600-154, Remains of Windmill, RCRA General Inspection HIRIV-FY96 Item #6	Rejected	RL-TP13		
600-16, MIL - PSN 07/10, PSN 10, H-07-H, Base Camp 500	Deleted from NPL	RL-TP13	RL-ER01	
600-17, MIL - PSN 12/14 Site and Military Dump, Tent Camp 505, PSN 12, H-14	Deleted from NPL	RL-TP13	RL-ER01	

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**TABLE 4-57 Landlord Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
600-18, MIL - PSN 72/82, PSN 72, H-82, Tent Camp 515	Deleted from NPL	RL-TP13	RL-ER01	
600-19, MIL - PSN 90, H-90, Base Camp 410	Deleted from NPL	RL-TP13	RL-ER01	
600-229, RCRA General Inspection 200Wfy97 Item #21 Historic Disposal Site, Dumping Area Near White Bluffs Ferry Landing (East Side)	Rejected	RL-TP13		
600-6, MIL - H-12-L, "Battery B" Nike Missile Launch Site	Deleted from NPL	RL-TP13	RL-ER01	
600-7, Nike Asbestos Pipe Site, Concrete/Asbestos Pipe Site	Deleted from NPL	RL-TP13	RL-ER01	
600-72, Wahluke Slope H-12-R Debris Site, H-12R	Deleted from NPL	RL-TP13	RL-ER01	
600-73, Wahluke Slope Igloo Sites	Deleted from NPL	RL-TP13	RL-ER01	
600-74, Wahluke Slope PSN 12/14 Military Construction Dump, Motor Pool Dump	Deleted from NPL	RL-TP13	RL-ER01	
600-75, Wahluke Slope PSN 80 Debris Site	Deleted from NPL	RL-TP13	RL-ER01	
600-76, Wahluke Slope "Radar" Site, Underground Rooms	Deleted from NPL	RL-TP13	RL-ER01	
600-77, Wahluke Slope Shrapnel Sites, Antiaircraft Gun Shrapnel Sites 1, 2, 3	Deleted from NPL	RL-TP13	RL-ER01	
600-78, Power Pole 12-3 Cistern, 12-3 Cistern	Deleted from NPL	RL-TP13	RL-ER01	
600-79, Wahluke Slope Clay Pit Cistern	Deleted from NPL	RL-TP13	RL-ER01	
600-8, MIL - H-06C, Control Center for "Battery A" Nike Missile, Wahluke Slope Nike Missile Base, WSNMB, 600-103 (Part)	Deleted from NPL	RL-TP13	RL-ER01	
600-80, Wahluke Slope Cow Camp Cistern	Deleted from NPL	RL-TP13	RL-ER01	
600-81, Wahluke Slope Homestead Cistern	Deleted from NPL	RL-TP13	RL-ER01	
600-82, Wahluke Slope Overlook Cistern	Deleted from NPL	RL-TP13	RL-ER01	
600-83, Wahluke Slope Stock Tank Cistern	Deleted from NPL	RL-TP13	RL-ER01	
600-84, Wahluke Slope Wagon Road Cistern	Deleted from NPL	RL-TP13	RL-ER01	
600-85, Wahluke Slope Stove Cistern	Deleted from NPL	RL-TP13	RL-ER01	
600-86, Wahluke Slope Wasteway Cistern	Deleted from NPL	RL-TP13	RL-ER01	
600-87, Wahluke Slope Dune Homestead	Deleted from NPL	RL-TP13	RL-ER01	
600-88, Wahluke Slope Lonetree Homestead	Deleted from NPL	RL-TP13	RL-ER01	
600-89, Wahluke Slope Asphalt Batch Plant	Deleted from NPL	RL-TP13	RL-ER01	
600-9, MIL - H-06L, Battery "A" Nike Missile Installation Launch Site, Wahluke Slope Nike Missile Base, WSNM, 600-103 (Part)	Deleted from NPL	RL-TP13		
600-90, Wahluke Slope Coyote Bait Can/Bait Station	Deleted from NPL	RL-TP13	RL-ER01	
600-91, Wahluke Slope Gravel Pit #47	Deleted from NPL	RL-TP13	RL-ER01	
600-92, Wahluke Slope Gravel Pit #56, Borrow Pit #56	Deleted from NPL	RL-TP13	RL-ER01	
600-93, Hanford Firing Range	Deleted from NPL	RL-TP13	RL-ER01	
600-94, Wahluke Schoolhouse	Deleted from NPL	RL-TP13	RL-ER01	
600-95, Wahluke Slope Bridge Disposal Area, Bridge Overlook Site	Deleted from NPL	RL-TP13	RL-ER01	
600-105, SDBDL, Sodium Dichromate Barrel Disposal Landfill	Closed Out	RL-TP13		

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**TABLE 4-57 Landlord Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
600-106, WBPAC, White Bluffs Pickling Acid Crib, White Bluff Pickling Acid Crib	Closed Out	RL-TP13		
600-153, Dumping Area Between River Mile Markers 29 and 30	Rejected(Proposed)	RL-TP13		
600-239, Debris in Pit 16, Hanford Aggregate Pit Debris, 615 Hot Mix Plant Debris	Rejected(Proposed)	RL-TP13		
600-240, Debris in Pit 17, Hanford Aggregate Pit Debris, 615 Hot Mix Plant Debris	Rejected(Proposed)	RL-TP13		
600-250, Metal Debris from RCRA General Inspection #LORIVFY97 Item #4	Rejected(Proposed)	RL-TP13		
600-251, Steel Pipe from RCRA General Inspection #LORIVFY97 Item #6	Rejected(Proposed)	RL-TP13		
124-N-10, 124-N-10 Sanitary Sewer System, 100-N Central Sewer System No. 10, Project H-677	Active	RL-TP13	RL-ER01	RL-ER01
600-32, N Area Landfill	Active	RL-TP13	RL-ER01	RL-ER01
<b>CP Soil Site Operable Units</b>	Active		RL-ER02 RL-ER05	RL-ER02 RL-ER07
200-E-47, RCRA Permit General Inspection #200EFY96 Item #7	Rejected(Proposed)	RL-TP13		
600-156, Construction Debris Dump Site	Active	RL-TP13	RL-ER02	RL-ER02
200-E-48; RCRA Permit General Inspection #200EFY96 Item #15	Rejected(Proposed)	RL-TP13		
200-E PD 200-E Powerhouse Ditch, 200 East Powerhouse Pond	Active	RL-TP13	RL-ER02	RL-ER02
CTFN 2703-E, Chemical Tile Field North of 2703-E	Active	RL-TP13	RL-ER02	RL-ER02
200-W PP, 200-W Powerhouse Pond, 200 West Powerhouse Ponds, 284-W-B	Active	RL-TP13	RL-ER02	RL-ER02
200-W-19, Steam Line Asbestos Release	Rejected(Proposed)	RL-TP13		
2727-S, 2727-S Nonradioactive Dangerous Waste Storage Facility, 2727-S NRDWS Facility	Closed Out	RL-TP13		RL-ER02
200-E-46, RCRA Permit General Inspection #200EFY96 Item #3	Active	RL-TP13	RL-ER02	RL-ER02
200-E-50, 284-E Brine Pit, 284-E Salt Dissolving Pit and Brine Pump Pit	Active	RL-TP13		
200-E-51, 284-E Powerhouse Coal Ramp Washdown Pit, 200 East Powerhouse Coal Ramp Washdown Pit	Active	RL-TP13		
200-E-52, 200 East Powerhouse Coal Pile	Active	RL-TP13		
2101-M POND, 2101-M Pond	Closed Out	RL-TP13		
2704-E HWSA, 2704-E Hazardous Waste Storage Area	Active	RL-TP13	RL-ER02	RL-ER02
200-W ADS, 200-W Ashpit Demolition Site	Closed Out	RL-TP13		
200-W-60, 284-W Brine Pit, 284-W Salt Dissolving Pit and Brine Pump Pit	Active	RL-TP13		
200-W-61, 284 Powerhouse Coal Ramp Washdown Pit, 200 West Powerhouse Coal Ramp Washdown Pit	Active	RL-TP13		
200-W-62, 200 West Powerhouse Coal Pile	Active	RL-TP13		
200-E-5, 2607-E2, 2607-E2 Septic Tank & Tile Field	Active	RL-TP13	RL-ER02	RL-ER02
200-E-7, 2607-E0 Septic Tank & Tile Field	Active	RL-TP13	RL-ER02	RL-ER02
200-E-9, 2607-EN, 2727-E Septic System, 2607-EN Septic Tank/Pump Station	Active	RL-TP13	RL-ER02	RL-ER02
2607-E1	Active	RL-TP13	RL-ER02	RL-ER02
2607-E11	Active	RL-TP13	RL-ER02	RL-ER02
2607-E6	Active	RL-TP13	RL-ER02	RL-ER02
2607-E8	Active	RL-TP13	RL-ER02	RL-ER02
2607-EK	Active	RL-TP13	RL-ER02	RL-ER02
2607-EL, 2607-EL Septic Tank/Pump Station	Active	RL-TP13	RL-ER02	RL-ER02
2607-EM	Active	RL-TP13	RL-ER02	RL-ER02
2607-EP	Active	RL-TP13	RL-ER02	RL-ER02
2607-EQ	Active	RL-TP13	RL-ER02	RL-ER02
2607-ER	Active	RL-TP13	RL-ER02	RL-ER02
2607-FSM, 609 Building Septic Tank 2607-FSM, 100 Area Fire Station Septic Tank, 1607-FSM, 6607-FSM	Active	RL-TP13	RL-ER02	RL-ER02
2607-FSN, 609A Building Septic Tank 2607-FSN	Active	RL-TP13	RL-ER02	RL-ER02
2607-W1	Active	RL-TP13	RL-ER02	RL-ER02
2607-W2	Active	RL-TP13	RL-ER02	RL-ER02
200-E PAP, 200-E Powerhouse Ash Pit	Active	RL-TP13	RL-ER02	RL-ER02
200-E-1, 284E Inert Landfill	Active	RL-TP13	RL-ER02	RL-ER02
200-E-12, Sand Piles from RCRA General Inspection 200EFY95 Item #5	Active	RL-TP13	RL-ER02	RL-ER02
200-E-13, Rubble Piles from RCRA General Inspection #200EFY95 Item #7	Active	RL-TP13	RL-ER02	RL-ER02
200-E-2, 2101-M SW Parking Lot, MO-234 parking Lot	Active	RL-TP13	RL-ER02	RL-ER02

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**TABLE 4-57 Landlord Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
200-N-3, Ballast Pits	Active	RL-TP13	RL-ER02	RL-ER02
200-W ADB, 200-W Ash Disposal Basin	Active	RL-TP13	RL-ER02	RL-ER02
200-W PAP, 200-W Powerhouse Ash Pit	Active	RL-TP13	RL-ER02	RL-ER02
200-W-11, Concrete Foundation South of 241-S, S-Farm Foundation and Dump Site	Active	RL-TP13	RL-ER02	RL-ER02
200-W-3, 2713-W North Parking Lot, 220-W-1	Active	RL-TP13	RL-ER02	RL-ER02
200-W-6, 200-W Painter Shop paint solvent disposal area	Active	RL-TP13	RL-ER02	RL-ER02
600 BPHWSA, 600 Area Batch Plant HWSA, Hazardous Waste Storage Area (Batch Plant)	Active	RL-TP13	RL-ER02	RL-ER02
600 CL, 600 Area Central Landfill, Central Landfill, Central Waste Landfill, CWL, Solid Waste Landfill, SWL	Active	RL-TP13	RL-ER02	RL-ER02
600-38, Railroad Siding "Susie", 600-25, Susie Junction	Active	RL-TP13	RL-ER02	RL-ER02
600-40, West of West Lake Dumping Area	Active	RL-TP13	RL-ER02	RL-ER02
600-51, Chemical Dump	Active	RL-TP13	RL-ER02	RL-ER02
628-2, 100 Area Fire Station Burn Pit	Active	RL-TP13	RL-ER02	RL-ER02
OCSA, Old Central Shop Area, Central Shop Area	Active	RL-TP13	RL-ER02	RL-ER02
600-25, Susie Junction	Active	RL-TP13	RL-ER02	RL-ER02
200-W-55, Dumping Area North of 231-Z	Active	RL-TP13	RL-ER02	RL-ER02
200-W-56, Debris North of 221-U	Active	RL-TP13	RL-ER02	RL-ER02
200-W-57, Excess Equipment Laydown Area from RCRA General Inspection #200WY97 Item #10	Rejected(Proposed)	RL-TP13		
200-E-26, Heavy Equipment Storage Area, Diesel Fuel Contaminated Soil	Active	RL-TP13	RL-ER02	RL-ER02
UPR-200-N-1, Unplanned release near 212-R railroad spur	Active	RL-TP13	RL-ER02	RL-ER02
200-W-33, Solid Waste Dumping Area	Active	RL-TP13	RL-ER02	RL-ER02
200-W-65, Concrete Vault Northwest of WRAP, Water Pumping Station Vault, Abandoned Water System Pump Vault	Rejected (Proposed)	RL-TP13		
<b>CC Soil Site Operable Units</b>	Active		RL-ER02	RL-ER02 RL-ER07
600-216, 600-48, H-61-H Anti-Aircraft Artillery Site Building Foundations	Rejected(Proposed)	RL-TP13		
600-217, H-61-H Anti-Aircraft Artillery Site Sewer System	Active	RL-TP13	RL-ER02	RL-ER02
600-218, H-61-H Anti-Aircraft Artillery Site Dumping Area	Active	RL-TP13	RL-ER02	RL-ER02
600-219, H-61-R Radar Site	Rejected(Proposed)	RL-TP13		
600-220, H-51 Anti-Aircraft Artillery Site Dumping Area	Rejected(Proposed)	RL-TP13		
600-222, H-60 Gun Site	Rejected(Proposed)	RL-TP13		
600-223, Military Camp South of 200W, H-50 Gun Site Pit	Active	RL-TP13		
600-224 Military Camp South of 200W, H-50 Gun Site Septic System	Active	RL-TP13	RL-ER02	RL-ER02
600-39, Military Camp South of 200W, H-50 Gun Site Building Foundations and Ammunition Storage	Rejected(Proposed)	RL-TP13		
600-53, H-51 Anti-aircraft Artillery Site Building Foundations	Rejected(Proposed)	RL-TP13		
600-146, Steel Structure on Northwest Side of Gable Mountain	Active	RL-TP13	RL-ER02	RL-ER02
600-147, Wood Shack (Northwest of Gable Mountain)	Rejected(Proposed)	RL-TP13		
600-226, Gun Site H-42 Dumping Area	Active	RL-TP13	RL-ER02	RL-ER02
600-227, H-40 Gun Site Building Foundations	Rejected (Proposed)	RL-TP13		
600-228, H-40 Gun Site Dumping Area	Active	RL-TP13	RL-ER02	RL-ER02
600-49, H-42 Gun Site Building Foundations and Ammunition Storage	Rejected(Proposed)	RL-TP13		
600-236, Soilcell 607 Site; Petroleum Contaminated Soil	Active	RL-TP13	RL-ER02	RL-ER02
600-65, 607 Batch Plant Drum Site	Active	RL-TP13	RL-ER02	RL-ER02
600-66, 607 Batch Plant Orphan Drums	Active	RL-TP13	RL-ER02	RL-ER02
600-71, 607 Batch Plant Burn Pit	Active	RL-TP13	RL-ER02	RL-ER02
600-237, Borrow Pits (2), Gable Pond (216-A-25) North and South Borrow Pits	Active	RL-TP13	RL-ER02	RL-ER02
600-254, 251-W Substation Mineral Oil Pipelines	Active	RL-TP13		
600-36, Railroad Siding "Ethel"	Active	RL-TP13	RL-ER02	RL-ER02
<b>S600 Soil Site Operable Units</b>	Active		RL-ER03 RL-ER05	RL-ER03 RL-ER07
1100-1, Battery Acid Pit, 1171 Building Sandpit Spills, UPR-1100-1	Deleted from NPL	RL-TP13	RL-ER03	

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**TABLE 4-57 Landlord Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
1100-11, Ephemeral Pool	Deleted from NPL	RL-TP13	RL-ER03	
1100-12 Dumping Areas		RL-TP13	RL-ER03	RL-ER03
1100-13, Gravel Pit #1	Rejected(Proposed)	RL-TP13		
1100-14, Gravel Pit #2	Rejected(Proposed)	RL-TP13		
1100-15, Gravel Pit #3	Rejected(Proposed)	RL-TP13		
1100-2, Paint and Solvent Pit, UPR-1100-2	Deleted from NPL	RL-TP13	RL-ER03	
1100-3, Antifreeze and Degreaser Pit, Antifreeze Pit, UPR-1100-3	Deleted from NPL	RL-TP13	RL-ER03	
1100-4, Antifreeze Tank Site, UN-1100-4, 1171 Building Spills, UPR-1100-4	Deleted from NPL	RL-TP13	RL-ER03	
1100-9, 1164 Building 90-Day Waste Accumulation Area	Active	RL-TP13		
600-2, Army Landfill	Active	RL-TP13	RL-ER03	RL-ER03
UPR-1100-5, UN-1100-5, 1171 Parking Lot	Deleted from NPL	RL-TP13	RL-ER03	
UPR-1100-6, Discolored Soil Site, UN-1100-6	Deleted from NPL	RL-TP13	RL-ER03	
1100 HWSA, 1100 Area HWSA, 1100 Area Hazardous Waste Storage Area	Deleted from NPL	RL-TP13	RL-ER03	
1100 UOT4, 1100 Area Used Oil Tank 4, 1100 Area Underground Used Oil Tank (tank #4), 1171-4	Deleted from NPL	RL-TP13	RL-ER03	
1100 UOT5, 1100 Area Used Oil Tank 5, 1100 Area Underground Used Oil Tank (Tank #5), 1171-5	Deleted from NPL	RL-TP13	RL-ER03	
1100 UOT6, 1100 Area Used Oil Tank 6, 1100 Area Underground Used Oil Tank (Tank #6), 1171-6	Deleted from NPL	RL-TP13	RL-ER03	
1100 USPT2, 1100 Area Underground Steam Pad Tank 2, 1171-2	Deleted from NPL	RL-TP13	RL-ER03	
1100 USPT3, 1100 Area Underground Steam Pad Tank 3, 1171-3	Deleted from NPL	RL-TP13	RL-ER03	
1100-8, 1171 Hoist Oil Leak	Deleted from NPL	RL-TP13	RL-ER03	
700 WST, 700 Area Waste Solvent Tank, 700 Area Underground Waste Solvent Tank, 703-1	Deleted from NPL	RL-TP13	RL-ER03	
700-1, 747 Building 90-Day Waste Accumulation Area	Active	RL-TP13		
600-112, 6652-C SSLAST, 6652-C SSL Active Septic Tank, 6652-C Space Science Laboratory Active Septic Tank	Deleted from NPL	RL-TP13	RL-ER03	
600-113, 6652-C SSLIST, 6652-C SSL Inactive Septic Tank, 6652-C Space Science Laboratory Inactive Septic Tank	Deleted from NPL	RL-TP13	RL-ER03	
600-114, 6652-G ALEFSBST, 6652-G ALE Field Storage Building Septic Tank	Deleted from NPL	RL-TP13	RL-ER03	
600-115, 6652-I ALEHST, 6652-I ALE Headquarters Septic Tank, 6652-I Arid Lands Ecology (ALE) Headquarters Septic Tank	Deleted from NPL	RL-TP13	RL-ER03	
600-28, Rattlesnake Construction Dump	Deleted from NPL	RL-TP13	RL-ER03	
300 ASH PITS, 300 Ash Pits, 300 Area Ash Pits	Closed Out	RL-TP13		
300 FBP, 300 Area Filter Backwash Pond	Active	RL-TP13	RL-ER03	RL-ER03
300-52, 300 Area Sanitary Trenches	No Action	RL-TP13	RL-ER03	RL-ER03
300 IFBD, 300 Area Interim Filter Backwash Disposal	Rejected	RL-TP13		RL-ER03
300 PHWSA, 300 Area Powerhouse HWSA, 300 Area Powerhouse Hazardous Waste Storage Area	Rejected	RL-TP13		RL-ER03
300 SSS, 300 Area Sanitary Sewer System	Rejected	RL-TP13		
300-102, 328 Building Steam Condensate, Miscellaneous Stream #353	Rejected	RL-TP13	RL-ER03	RL-ER03
300-11, Pumphouse Underground Gasoline Tank, 382 Pumphouse UGT, 382-1	Active	RL-TP13	RL-ER03	RL-ER03
300-116, 3506A Building Steam Condensate, Miscellaneous Stream #381	Rejected	RL-TP13		
300-117, 3506A Building Steam Condensate, Miscellaneous Stream #382	Rejected	RL-TP13		
300-118, 3621D Building Steam Condensate, Miscellaneous Stream #700, Pit U-7.	Rejected	RL-TP13		
300-119, 3621D HVAC Condensate, Miscellaneous Stream #401, 3621D Air/Condensate Blowdown Drain	Rejected	RL-TP13		

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**TABLE 4-57 Landlord Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
300-120, 3621D Building Diesel Generator Cooling System Condensate, Miscellaneous Stream #402, 3621D Air Driven Starter Motor Discharge Drain	Rejected	RL-TP13		
300-121, 3621D Building Stormwater Runoff, Miscellaneous Stream #403, Injection Well #26, 36" Dry Well	Rejected	RL-TP13		
300-122, 366 Building Fuel Oil Bunker Loading Station Steam Condensate, Miscellaneous Stream #344	Rejected	RL-TP13		
300-123, 366 Building Fuel Oil Bunker Loading Station Steam Condensate, Miscellaneous Stream #342	Active	RL-TP13	RL-ER03	RL-ER03
300-124, 366 Building Fuel Oil Bunker Steam Condensate, Miscellaneous Stream #653	Rejected	RL-TP13		
300-125, 3702 Building Steam Condensate, Miscellaneous Stream #346	Rejected	RL-TP13		
300-126, 3703 Building Steam Condensate, Miscellaneous Stream #431	Rejected	RL-TP13		
300-127, 3705 Building Stormwater Runoff, Miscellaneous Stream #410	Rejected	RL-TP13		
300-128, 3705 Building Stormwater Runoff, Miscellaneous Stream #411	Rejected	RL-TP13		
300-129, 3705 Building Stormwater Runoff, Miscellaneous Stream #412	Rejected	RL-TP13		
300-150, 3706 Building Steam Condensate, Miscellaneous Stream #430	Rejected	RL-TP13		
300-151, 3707B Building Steam Condensate, Miscellaneous Stream #327	Rejected	RL-TP13		
300-152, 3707B Building Steam Condensate, Miscellaneous Stream #326, U57	Rejected	RL-TP13		
300-153, 3707B Building Steam Condensate, Miscellaneous Stream #328	Rejected	RL-TP13		
300-154, 3707B Building Steam Condensate, Miscellaneous Stream #325	Rejected	RL-TP13		
300-155, 3707C Building Steam Condensate, Miscellaneous Stream #179, Injection Well #24	Rejected	RL-TP13		
300-156, 3707C Building Steam Condensate, Miscellaneous Stream #178, Injection Well #23	Rejected	RL-TP13		
300-157, 3707C Building Steam Condensate, Miscellaneous Stream #337	Rejected	RL-TP13		
300-158, 3707C Building Steam Condensate, Miscellaneous Stream #336, F.D. #31	Rejected	RL-TP13		
300-159, 3707C Building Steam Condensate, Miscellaneous Stream #335, F.D. #4	Rejected	RL-TP13		
300-160, 3707D Building Steam Condensate, Miscellaneous Stream #443, Injection Well #10	Rejected	RL-TP13		
300-161, 3707D Building Stormwater Runoff, Miscellaneous Stream #441	Rejected	RL-TP13		
300-162, 3707D Building Stormwater Runoff, Miscellaneous Stream #442	Rejected	RL-TP13		
300-164, 3709 Building Steam Condensate, Miscellaneous Stream #338, F.D. #3	Rejected	RL-TP13		
300-165, 3709A Building Condensate, Miscellaneous Stream #347	Rejected	RL-TP13		
300-166, 3709A Building Steam Trap, Miscellaneous Stream #355	Rejected	RL-TP13		
300-167, 3711 Building Steam Condensate, Miscellaneous Stream #343	Rejected	RL-TP13		
300-168, 3711 Building Steam Condensate, Miscellaneous Stream #433	Rejected	RL-TP13		
300-171, 3713 Building Steam Condensate and Stormwater Runoff, Miscellaneous Stream #333, F.D. #7	Rejected	RL-TP13		
300-172, 3713 Building Steam Condensate, Miscellaneous Stream #435	Rejected	RL-TP13		
300-173, 3713 Building Steam Condensate, Miscellaneous Stream #512	Rejected	RL-TP13		
300-174, 3713 Building Stormwater Runoff and Steam Condensate, Miscellaneous Stream #544	Rejected	RL-TP13		
300-176, 3715 Building Steam Condensate, Miscellaneous Stream #678	Rejected	RL-TP13		
300-177, 3717 Building Steam Condensate, Miscellaneous Stream #330	Rejected	RL-TP13		
300-178, 3717 Building Steam Condensate, Miscellaneous Stream #329	Rejected	RL-TP13		
300-179, 3717 Building Steam Condensate, Miscellaneous Stream #324	Rejected	RL-TP13		
300-180, 3717 Building Stormwater Runoff, Miscellaneous Stream #545	Rejected	RL-TP13		
300-181, 3717 Building Steam Condensate, Miscellaneous Stream #180	Rejected	RL-TP13		
300-182, 3717B Building Steam Condensate, Miscellaneous Stream #323	Rejected	RL-TP13		
300-183, 3718 Building Steam Condensate, Miscellaneous Stream #340, F.D. #40	Rejected	RL-TP13		
300-185, 3722 Building Steam Condensate, Miscellaneous Stream #436, Injection Well #6	Rejected	RL-TP13		
300-192, 3732 Building Steam Condensate, Miscellaneous Stream #349	Rejected	RL-TP13		
300-193, 3732 Building Steam Condensate, Miscellaneous Stream #419, Injection Well #15	Rejected	RL-TP13		
300-194, 3734 Building Steam Condensate, Miscellaneous Stream #334, F.D. #8	Rejected	RL-TP13		
300-195, 3734A Building Steam Condensate, Miscellaneous Stream #519	Rejected	RL-TP13		
300-202, 3765 Building HVAC Condensate, Miscellaneous Stream #345	Rejected	RL-TP13		

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**TABLE 4-57 Landlord Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
300-204, 3790 Building Stormwater Runoff, Miscellaneous Stream #378, F.D. #19, Injection Well #19	Rejected	RL-TP13		
300-205, 3790 Building Stormwater Runoff, Miscellaneous Stream #377, F.D. #18, Injection Well #18	Rejected	RL-TP13		
300-206, 3790 Building Stormwater Runoff, Miscellaneous Stream #373	Rejected	RL-TP13		
300-207, 3790 Building Stormwater Runoff, Miscellaneous Stream #375, F.D. #16, Injection Well #16	Rejected	RL-TP13		
300-208, 3790 Building Stormwater Runoff, Miscellaneous Stream #376, F.D. #17, Injection Well #17	Rejected	RL-TP13		
300-209, 3790 Building Stormwater Runoff, Miscellaneous Stream #374	Rejected	RL-TP13		
300-210, 3790 Building Stormwater Runoff, Miscellaneous Stream #514	Rejected	RL-TP13		
300-211, 382 Building Steam Condensate, Miscellaneous Stream #429	Rejected	RL-TP13		
300-213, West High Tank (Water Tower) Overflow and Steam Condensate, Miscellaneous Stream #332	Rejected	RL-TP13		
300-215, 300 Area South	Rejected	RL-TP13		
300-217, 300 Area Laydown Yard	Active	RL-TP13		
300-220, Gravel Pit #7	Rejected	RL-TP13		
300-222, 384-W Brine Pit, 384-W Salt Dissolving Pit and Brine Pump Pit	Active	RL-TP13	RL-ER03	RL-ER03
300-223, 384 Powerhouse Fuel Oil Day Tanks #1 and #2	Active	RL-TP13	RL-ER03	RL-ER03
300-225, 3790 Building Stormwater Runoff, Miscellaneous Stream #767	Rejected (Proposed)	RL-TP13		
300-26, Powerhouse Fuel Oil Spill, 384 Powerhouse #6 Fuel Oil Spill, Delivery Truck Spillage on Roads	Rejected	RL-TP13		RL-ER03
300-30, 3705 Photography Building	Rejected	RL-TP13		RL-ER03
300-36, 384 Powerhouse Oil Release to French Drain	Rejected	RL-TP13		
300-37, PCB Leak to Soil Adjacent to 335A	Closed Out	RL-TP13		
300-4, DOE 351 Substation Soil Contamination	Active	RL-TP13	RL-ER03	RL-ER03
300-5, 300 Area Fire Station Fuel Tanks, 3709A Fire Station	Active	RL-TP13	RL-ER03	RL-ER03
300-56, 306-E 90-Day Waste Accumulation Area	Rejected	RL-TP13		
300-59, 305 Building Steam Condensate, Miscellaneous Stream #417	Rejected	RL-TP13		
300-6, 366/366A Fuel Oil Bunkers	Active	RL-TP13	RL-ER03	RL-ER03
300-67, Steam Condensate from 300 Area Main Steam Header, Miscellaneous Stream #414	Rejected	RL-TP13		
300-68, 305 Building - Steam Condensate, Miscellaneous Stream #451, Pit U23	Rejected	RL-TP13		
300-69, 305 Building Steam Condensate, Miscellaneous Stream #415	Rejected	RL-TP13		
300-70, 305 Building Steam Condensate, Miscellaneous Stream #416	Rejected	RL-TP13		
300-71, 306E Building - HVAC Condensate, Miscellaneous Stream #454	Rejected	RL-TP13		
300-86, 300 Area South Parking Lot Stormwater Runoff, Miscellaneous Stream #524	Rejected	RL-TP13		
315 RSDF, 315 Retired Sanitary Drain Field	Rejected	RL-TP13		RL-ER03
3713 PSHWSA, 3713 Paint Shop Hazardous Waste Satellite Area	Rejected	RL-TP13		RL-ER03
3713 SSHWSA, 3713 Sign Shop Hazardous Waste Satellite Area	Rejected	RL-TP13		RL-ER03
400 RST, 400 Area Retired Septic Tanks	Rejected	RL-TP13		RL-ER03
400 SS, 400 Area Sanitary Sewer, 4608 Sanitary Sewer, 4608 SS	Rejected	RL-TP13		RL-ER03
400 STF, 400 Area Sanitary Tile Field, 4608 Sanitary Tile Field, 4608 STF	Rejected	RL-TP13		RL-ER03
400-11, 4607 SSL, 4607 Sanitary Sewer Lagoon, 400 Area Wetlands	Rejected	RL-TP13		RL-ER03
400-12, 4607 STF, 4607 Sanitary Tile Field, 4608A Sanitary Sewer Leaching Field, 4608A Leaching Field	Rejected	RL-TP13		RL-ER03
400-36, 4843 Building Temporary Transfer Station	Active	RL-TP13		
400-7, 4607 SSST, 4607 Sanitary Sewer Septic Tank, 4607 SS, 4607 Sanitary Sewer	Rejected	RL-TP13		RL-ER03
4722 PSHWSA, 4722 Paint Shop HWSA, 4722 Paint Shop Hazardous Waste Storage Area, 4722-C Hazardous Waste Storage Area	Rejected	RL-TP13		RL-ER03
4722-B FD, 4722-B French Drain	Rejected	RL-TP13		RL-ER03
4722-C FD, 4722-C French Drain, French Drain South of 4722-C, Miscellaneous Stream #29	Rejected	RL-TP13		RL-ER03
600-155, Dumping Area Upstream of River Mile Marker 35 Identified During RCRA General Inspection #HIRIV-FY96 Item #7	Rejected	RL-TP13		
600-22, UFO Landing Site	No Action	RL-TP13	RL-ER03	RL-ER03
600-243, Petroleum Contaminated Soil Bioremediation Pad	Active	RL-TP13	RL-ER03	RL-ER03
600-244, Gravel Pit #6	Rejected	RL-TP13		
600-245, Gravel Pit #8	Rejected	RL-TP13		
600-246, Gravel Pit #9, Inert/Demolition Waste Landfill (Pit 9)	Rejected	RL-TP13		RL-ER03
600-247, Gravel Pit #10, Inert Landfill (Pit 10)	Rejected	RL-TP13		RL-ER03
600-248, Gravel Pit #11	Rejected	RL-TP13		

**TABLE 4-57 Landlord Project Facility Life-Cycle Responsibility Assignments for Waste Sites (Continued)**

Waste Site	Status	Life Cycle Phase		
		S&M	Post Ops	Remedial Action
600-249, Debris Within Gravel Pit #6	Rejected	RL-TP13		RL-ER03
600-58, H.J. Ashe Substation Oil/Water Separator & Drywells, BPA SWMU #13	Active	RL-TP13	RL-ER03	RL-ER03
600-59, H.J. Ashe Substation Storage Area, BPA SWMU #12, Generator Storage Area Sump	Active	RL-TP13	RL-ER03	RL-ER03
600-60, H.J. Ashe Substation Switchyard Facility	Active	RL-TP13	RL-ER03	RL-ER03
600-62, Benton Switch Substation Releases	Active	RL-TP13	RL-ER03	RL-ER03
600-64, Underground Sanitary Sewer Line from 400 Area to WPPSS, Sanitary Waste Tie-Line from the 400 Area to WPPSS	Rejected	RL-TP13		
JA JONES 1, JA Jones 1, JA Jones Dumping Pit #1, JA Jones Construction Pit #1	Active	RL-TP13	RL-ER03	RL-ER03
UPR-300-42, 300 Area Powerhouse Fuel Oil Spill, UN-300-42	Active	RL-TP13	RL-ER03	RL-ER03
UPR-300-7, UN-300-7, Oil Spill at 384 Building	Active	RL-TP13	RL-ER03	RL-ER03
UPR-400-1, 400 Area Coolant Spill, UN-400-1	Rejected	RL-TP13		RL-ER03
UPR-600-11, Contaminated Soil Dumped at JA Jones Pit #1	Closed Out	RL-TP13		RL-ER03

The 'Rejected' and 'Completed' waste sites are part of the Project Hanford Management Contract (PHMC), but require no additional work from the PHMC team. When they are removed from the contract via direction from the RL Contracting Officer representative, they will be removed from this specification.

\* RL PBS Identifier Index:

RL-ER01 - 100 Area Source Remedial Action  
 RL-ER02 - 200 Area Source Remedial Action  
 RL-ER03 - 300 Area Source Remedial Action  
 RL-ER05 - Surveillance & Maintenance  
 RL-ER07 - Long Term Surveillance & Maintenance  
 RL-ER09 - N Area Deactivation  
 RL-TP13 - Landlord

#### **4.2.5.e Performance Measures**

Performance measures are used to monitor both mission and corporate management. In this document, our focus is on mission management. There are two types of mission-focused performance measures. First, there are performance measures that monitor the progress made on activities that must be conducted to enable waste/material cleanup to occur on the Hanford Site. For the Landlord mission area, these activities include providing real estate management, maintenance and surveillance of surplus facilities, emergency service equipment and facilities, utility service infrastructure (including electricity, water, sanitary waste water, telecommunications services), maintenance and upgrades to the road system, office space, and animal/vegetation control.

Second, there are performance measures that track the progress made in the processing of wastes and other materials (including facilities). These "process" measures monitor changes in waste/material form, storage method, and location. These measures are important because they are directly linked to two key Success Indicators - the reduction in the level of active management required for the inventory and the reduction in the hazard posed by the waste/material. Process measures will monitor the waste/material/facility during each major processing step as it transitions from its initial configuration to the configuration described by the appropriate endpoint target. Endpoint targets for the Landlord mission are presented in the Hanford Strategic Plan and are included in the *Facility Life-Cycle Requirements Section* for each project that comprises this mission. For processing materials and facilities that do not



have explicit endpoint targets, performance measures will monitor progress that is made to achieve appropriate performance objectives (as presented in *Multi-Year Work Plans*).

#### 4.2.5.1 Landlord

##### 4.2.5.1.1 Project Description Summary

The mission of the Landlord Project is to provide capital equipment replacements, major maintenance, and renovation of core infrastructure facilities and systems to facilitate the Hanford Site cleanup mission. After an infrastructure function is no longer needed to support the Hanford Site mission the Landlord Project is responsible for cost effective final disposition of the facilities, systems, and equipment including transfer to another entity, excess, salvage, monitoring, and demolition. Infrastructure systems include:

- Real estate management and site planning including mapping services
- Surveillance, maintenance, and deactivation of surplus facilities
- Emergency services vehicles (fire trucks, ambulances, etc.), equipment, and facilities
- Electrical distribution systems until the facilities they serve are deactivated
- Disposition of rail equipment (well/cask cars, etc.) and heavy mobile equipment
- Road system major maintenance (overlay and sealing) and upgrades to common roads until the facilities they serve are deactivated and the site cleaned up
- Water supply and distribution systems (pump houses and distribution piping) until the facilities they serve are deactivated
- Sanitary waste water systems and abandoned non-radiological waste sites (dry wells, storm drainage basins, etc.)
- Telecommunication systems until the facilities they serve are deactivated.
- General-purpose facilities including; office space, shops, laboratories, and warehouses with the emphasis on consolidating personnel, shop functions, and warehousing in the most cost-effective space from an operations and maintenance standpoint
- Vegetation and animal control
- Emergency operations center replacements, including Patrol Training Academy and Patrol Headquarters
- Sanitary landfill closure
- Non-radioactively contaminated waste sites assigned by RL.

The objective for general infrastructure support are reflected in four specific areas, 1) Core infrastructure maintenance and replacements, 2) Surveillance, maintenance, and deactivation of surplus infrastructure facilities and systems, 3) Disposition of surplus facilities, equipment, and systems, and 4) Surveillance, maintenance, and disposition of assigned waste sites.

Note: General operations and maintenance of infrastructure systems, services, and facilities is provided through assessments to the direct Hanford Site projects and is not a function of the Landlord Project.

##### 4.2.5.1.2 Life-Cycle Material and Waste Flow

**Table 4-58 Landlord Waste/Material Flow (Out)**

Major Facility	Category	Period	Value	Units
Rail System	CH LLW I	2000 - 2046	185.0	cubic meters

#### 4.2.5.1.3 Facility Life-Cycle Requirements

- Requirements

- Steam facilities shall be operated and maintained and steam services shall be provided in a safe, secure, environmentally sound, and cost-effective manner, optimizing site infrastructure as a whole.
- Hanford land use planning and management shall ensure that site lands are maintained in a safe, secure, environmentally sound, and cost-effective manner.
- The contractor shall 1) Provide real property management through execution of leases, permits, easements, and land disposition. This task excludes the leasing of commercial office space which is a task included in the Management and Maintenance of General Purpose Office Space. (See Section C.4.B(2)(c) above); and 2) Support DOE Land-use Planning and Management. in making determinations about present and future land use at the Hanford Site.
- The contractor shall: 1) provide disposition of excess general purpose facilities; 2) propose plans for demolishing, turning over facilities to others, or more cost-effective maintenance of excess general purpose facilities. The number of excess facilities is expected to increase over the next several years. The Contractor should assume that these structures in the Landlord Project are not radiologically contaminated.
- High cost surplus facilities shall be transitioned to a low cost, stable, deactivated condition. Maintain surplus facilities for the lowest cost possible until these facilities can be demolished or salvaged for economical return to offset the final disposition.
- Provide janitorial services, fabrication shops, and pest (including plant and animal) programs.

- Planning Assumptions

- Facilities in Central Plateau - 8 Remove non-essential, surplus buildings and facilities that do not have identified post-cleanup uses.
- Facilities in South 600 Area - 10 Remove non-essential, surplus buildings and facilities that don't have identified post-cleanup uses.
- The Hanford Site Infrastructure shall be optimized.  
Develop cost-competitive infrastructure commensurate with mission needs.  
Involve staff and community in the outsourcing process to assure the most cost competitive infrastructure.
- Central Plateau facilities other than processing facilities shall be dismantled.
- High cost surplus facilities and systems shall be transitioned to a low cost, stable, deactivated condition.
- Facilities and systems shall be made available for other uses.
- Facilities shall be transitioned to the surveillance and maintenance phase when no longer required to support the site mission.
- Facilities and systems that can not be used for other purposes, shall be removed, equipment and materials salvaged to offset the cost of final disposition.
- Central Core Area land ownership shall be retained
- Central Plateau shall be used for the collection of wastes that remain onsite.
- Columbia River shoreline use shall be restricted.
- Columbia River shoreline sensitive cultural resources shall be protected.
- Columbia River shoreline sensitive ecological resources shall be protected.

- Access to Hanford land used for radioactive waste disposal shall remain restricted.
- Arid Lands Ecology Reserve land ownership shall be retained.
- North Slope Area land ownership shall be retained.
- Arid Lands Ecology Reserve cultural resources shall be protected.
- Arid Lands Ecology Reserve ecological resources shall be protected.
- Arid Lands Ecology Reserve scientific resources shall be protected.
- North Slope scientific resources shall be protected.
- North Slope ecological resources shall be protected.
- North Slope cultural resources shall be protected.
- Reactors on the River land use shall be restricted.
- Reactors on the River archeological resources shall be protected.
- Reactors on the River cultural resources shall be protected.
- Reactors on the River ecological resources shall be protected.
- Reactors on the River land ownership shall be retained.
- 300 Area land ownership shall be retained.
- 400 Area land ownership shall be retained.
- 300 Area land shall be leased for other uses.
- 400 Area land shall be leased for other uses.
- South 600 Area land ownership shall be retained.
- South 600 Area land shall be leased for other uses.
- South 600 Area facilities shall be surveilled and maintained within the approved safety envelope.
- 400 area facilities shall be leased for other uses.

#### **4.2.5.1.4 Project Safety Authorization Basis/NEPA and Permits**

- The road system shall be maintained in a safe and compliant condition. If rehabilitation of the roads is deferred, deterioration will accelerate. Most of the Site roads have a minimal base (~7.6 cm), which is well below current road requirements for similar temperature-zoned areas (~45.7 cm), so preventive measures are a necessity to avoid total replacement. Cracks quickly become potholes and surface irregularities degenerate into rough surfaces. Within a short time, pavement conditions drop from fair to poor or very poor. At that point, the pavement and roadway requires complete reconstruction, which is 5 to 10 times more costly than preventive maintenance and periodic rehabilitation. The movement of freight, construction equipment, emergency vehicles, etc., is a critical part of the cleanup mission. As roads continue to degrade, this movement will begin operating outside of the safety envelope, increasing risk of injury/loss of life and risk of spill of fuels, oils, or hazardous materials and chemicals to the environment.

- Vacant facilities shall be monitored and maintained to ensure public and worker safety before demolition or transfer to other entities (i.e., Port of Benton, City of Richland, etc.) to meet their acceptance criteria. Isolation of utilities is required to minimize cost and potential for accidents or harm resulting from deteriorated system components. Regular S&M will ensure that lead paint and asbestos are not being released into the environment and that the appropriate level of pest control is maintained. Disposition of vacant buildings in or near populated areas is required because they pose safety hazards associated with being an attractive nuisance.

- Utility service equipment and facility-related systems shall be replaced based on safety and environmental risk reasons. For example, the Landlord Project provides complete roof replacements, replacement of leaky Freon\*-based chiller systems with non-ozone depleting

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based systems, and electrical and water system safety upgrades.

- NEPA Documentation--The Landlord Project activities are implemented based on completed and approved NEPA documentation.
- All Infrastructure Project activities will be performed in an environmentally sound, safe, economical, prudent, and reliable manner.

#### **4.2.5.1.5 Tri-Party Agreement Requirements**

- None

#### **4.2.5.1.6 Interfaces**

**TABLE 4-59 Landlord Interfaces**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
Offsite Sales	EXTERNAL	Receives Excess Land Receives Excess Rail Components from Disposition of the Rail System
Offsite Landfill	EXTERNAL	Receives Rubble from the Steam System
Hanford Legacy	EXTERNAL	Provides Legacy Central Landfill
Solid Waste Storage & Disposal	RL-WM03	Receives DYNCORP (MESS), CH LLW I
Surveillance & Maintenance	RL-ER05	Provides Initiate D&D of Environmental Support Facilities Provides Misc Eng Labs from S&M Receives Deactivated 3020 Facility Receives Deactivated Environmental Support Facilities

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**TABLE 4-59 Landlord Interfaces (Continued)**

<b>Project Title</b>	<b>Project Number</b>	<b>Interface</b>
ER Disposal Facility (ERDF)	RL-ER04	Receives Facility Rubble from Environmental Support Facilities for Disposition Receives Facility Rubble from Misc Engineering Labs for Disposition Receives Rubble from CP Area Rail System Demolition Receives Rubble from CP Area Road System Demolition Receives Rubble from CP Electrical System Demolition Receives Rubble from CP Liquid Sanitary Waste System Demolition Receives Rubble from CP Office Facilities Demolition Receives Rubble from CP Raw Water System Demolition Receives Rubble from CP Shop Facilities Demolition Receives Rubble from CP Steam Plant Facilities Demolition Receives Rubble from CP Storage Facilities Demolition Receives Rubble from CP Telecommunication System Demolition Receives Rubble from South 600 Area Electrical System Demolition Receives Rubble from South 600 Area Land Demolition Receives Rubble from South 600 Area Liquid Sanitary Waste System Demolition Receives Rubble from South 600 Area Office Facilities Demolition Receives Rubble from South 600 Area Rail System Demolition Receives Rubble from South 600 Area Road System Demolition Receives Rubble from South 600 Area Shop Facilities Demolition Receives Rubble from South 600 Area Steam Plant Demolition Receives Rubble from South 600 Area Storage Facilities Demolition Receives Rubble from South 600 Area Telecommunication System Demolition Receives Rubble from South 600 Area Water Facilities Demolition Receives Rubble from the RR Electrical Supply Structures and Facilities Receives Rubble from the RR Liquid Sanitary Waste System Receives Rubble from the RR Rail System Receives Rubble from the RR Raw Water Supply System Receives Rubble from the RR Roads Receives Rubble from the RR Telecommunication System Receives Rubble from the Steam System
PNNL Waste Management	RL-ST01	Provides Excess Environmental Support Facilities

#### 4.2.5.1.7 Requirements References

- DOE/EIS-0222D, Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan"
- DOE/RL-96-92, Hanford Strategic Plan"